

Gustav Hlavac

Fullstack Development, Software Engineer, IT Architect

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Professional Summary

Experienced mobile app developer with 15+ years of project experience specializing in iOS and Android application development. Expert in Firebase integration, cloud deployment automation, and cross-platform mobile solutions using hybrid frameworks. Proven track record in building scalable mobile applications with strong expertise in API development, database management, cloud platforms, and GenAI tooling integration. Advanced proficiency in Kubernetes cluster management, DevOps automation, infrastructure-as-code, and AI-powered development workflows. Founder and Managing Director of Hlaváč Business, s.r.o., delivering comprehensive software development and IT consulting services with advanced capabilities in cloud-native solutions and enterprise infrastructure management.

Core Competencies

Mobile Development

- iOS Development (Xcode, TestFlight)
- Android Development (Pixel device optimization)
- Hybrid Mobile Applications (Ionic, React Native)
- Firebase Integration & Authentication
- Mobile UI/UX Design
- App Store & Google Play Deployment

Web & Frontend Frameworks

- **JavaScript Frameworks:** React, Vue.js, Angular
- **Modern Frameworks:** Astro, Qwik, Svelte
- **TypeScript Development:** Full-stack TypeScript applications
- **Hybrid Mobile:** Ionic Framework, React Native
- **Static Site Generation:** Astro-based solutions
- **Component Libraries:** Modern UI component systems
- **No-Code/Low-Code:** Builder.io live publication and site management
- **Design-to-Code:** Figma integration and design system implementation

DevOps & Cloud Infrastructure

- **Kubernetes Management:** ArgoCD, Minikube, OpenShift
- **Container Orchestration:** Docker, Kubernetes, cluster management
- **GitOps:** ArgoCD deployment automation and configuration management
- **Infrastructure as Code:** Terraform, Helm, Kustomize
- **CI/CD Tools:** GitLab CI, Jira integration, GitHub Actions, Bitbucket Pipelines
- **Repository Management:** GitLab, GitHub, Bitbucket, Git workflows
- **Monitoring & Observability:** OpenTelemetry, distributed tracing, metrics collection

Technical Skills

- **Languages:** Swift, Kotlin, Java, JavaScript, TypeScript, Dart, SQL, Python, Bash
- **Mobile Frameworks:** React Native, Ionic Framework
- **Frontend Frameworks:** React, Vue.js, Angular, Astro, Qwik, Svelte
- **Backend:** Node.js, API Development & Integration, RESTful Services, Python
- **Scripting:** Bash scripting for pipelines, Python automation scripts
- **Databases:** SQL, NoSQL, Cloud Databases
- **Cloud Platforms:** Firebase, Cloud Build Systems, Kubernetes, Docker
- **DevOps & Container:** Docker, Kubernetes, ArgoCD, Minikube, OpenCD
- **GenAI Tools:** AI-powered development workflows, LLM integration, MCP creation, prompt engineering
- **Design Tools:** Figma, Builder.io integration, Image Manipulation, Logo Design, QR Code Automation

Specializations

- Mobile Application Architecture
- Hybrid Web-to-Mobile Solutions
- Cloud-Based Solutions
- Real-time Database Integration
- User Authentication Systems
- Automated Deployment Pipelines
- Cross-Platform Authentication
- API Design & Development

- GenAI Application Development
 - AI-Powered DevOps Workflows
 - Kubernetes Cluster Management
 - GitOps & Infrastructure Automation
 - Enterprise Infrastructure Management
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Professional Experience

Founder & Managing Director

Hlaváč Business, s.r.o. | Bratislava, Slovakia | February 2016 - Present

Leading a software development company specializing in mobile applications, hybrid web frameworks, API development, cloud integration services, AI-powered application development, and enterprise infrastructure management.

Key Achievements:

- Established and grew company revenue to €551,655 (2024)
- Developed comprehensive mobile application solutions for iOS and Android platforms using native and hybrid frameworks
- Implemented automated build and deployment systems using Xcode Cloud and Firebase
- Designed and deployed Kubernetes clusters using ArgoCD for GitOps-based infrastructure management
- Integrated GenAI tooling for enhanced DevOps workflows and application development
- Designed and integrated scalable APIs for various client applications
- Built modern web applications using React, Vue.js, Angular, and cutting-edge TypeScript frameworks
- Managed cloud infrastructure and database solutions across multiple platforms
- Implemented on-premise Kubernetes environments for enterprise clients

Core Services:

- Native mobile application development (iOS & Android)
- Hybrid mobile applications (React Native, Ionic)
- Modern web applications (React, Vue.js, Angular, Astro, Qwik, Svelte)
- Figma design systems and Builder.io integration for live site management
- API development and integration
- GenAI-powered application workflows with MCP tool integration
- Cloud platform implementation and management
- Kubernetes cluster management and GitOps infrastructure
- Database design and optimization
- AI-enhanced DevOps and automation

- Enterprise infrastructure consulting
- Software consulting and IT solutions

Technical Projects:

- Developed **Lab28** mobile application with custom UI/UX design (company-owned product)
 - Built cross-platform applications using React Native and Ionic frameworks
 - Implemented modern web applications with Astro, Qwik, and Svelte
 - Created AI-powered development workflows using GenAI tooling and LLM integration
 - Designed and deployed Kubernetes clusters with ArgoCD for multiple enterprise clients
 - Implemented on-premise infrastructure management across client environments
 - Created advanced Bash scripting for CI/CD pipeline automation
 - Developed Python automation scripts for DevOps and infrastructure management
 - Built MCP (Model Context Protocol) tools for LLM client integrations
 - Implemented Figma-to-Builder.io workflow automation for dynamic site publishing
 - Implemented automated QR code-based Google Forms with autofill functionality
 - Built cross-platform authentication systems integrating Firebase
 - Created automated deployment pipelines with ArgoCD and GitOps principles
 - Designed and implemented cloud-based data synchronization solutions
 - Integrated LLM-based features into production applications
 - Managed infrastructure across multiple client environments (OpenCD, Minikube, Docker Kubernetes)
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GenAI & Advanced Development Expertise

Generative AI Integration (May 2024 - Present)

1.5 Years of Specialized Experience

GenAI for Operations & DevOps:

- Implemented AI-powered automation workflows for deployment and monitoring
- Integrated LLM APIs for intelligent code review and optimization
- Built AI-assisted debugging and error resolution systems
- Developed prompt engineering strategies for development workflows
- Created GenAI-enhanced CI/CD pipelines
- Automated documentation generation using AI tools
- Implemented AI-powered testing and quality assurance workflows

Generative Application Workflows & MCP Integration:

- Designed and developed AI-powered application features
- Integrated OpenAI, Anthropic Claude, and other LLM APIs
- Created and deployed MCP (Model Context Protocol) tools for client LLM integrations

- Built custom MCP servers for enterprise client solutions
- Implemented LLM-driven infrastructure management tools
- Built conversational interfaces and chatbot applications
- Created AI content generation systems
- Implemented RAG (Retrieval-Augmented Generation) architectures
- Developed AI-assisted user experience features
- Built intelligent automation systems for business processes

AI-Enhanced Development:

- Leveraged GitHub Copilot and AI coding assistants
 - Implemented AI-powered code generation workflows
 - Created intelligent data processing pipelines
 - Built ML model integration for mobile and web applications
 - Developed AI-driven personalization features
 - Implemented natural language processing capabilities
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Kubernetes & Infrastructure Management

Cluster Management & Orchestration

- **ArgoCD:** GitOps-based continuous deployment, cluster management, automated reconciliation
- **Kubernetes Distributions:** Minikube, OpenShift, Docker Kubernetes
- **Infrastructure Tools:** OpenCD, Helm, Kustomize, kubectl automation
- **On-Premise Deployments:** Client infrastructure management and configuration
- **Multi-Environment Management:** Development, staging, production cluster orchestration
- **Secrets & Configuration:** Kubernetes secrets management, ConfigMaps, sealed secrets

DevOps & Automation Tools

- **CI/CD Platforms:** GitLab CI, GitHub Actions, Bitbucket Pipelines
- **Repository Management:** GitLab, GitHub, Bitbucket, advanced Git workflows
- **Project Tracking:** Jira integration, issue management automation
- **Observability:** OpenTelemetry implementation, distributed tracing, metrics collection
- **Container Registry:** Docker registry management, image optimization

Infrastructure as Code

- **Configuration Management:** Terraform, CloudFormation, IaC best practices
- **Package Managers:** Helm charts, Kustomize overlays, package management

- **Automation:** Bash scripting, Python automation scripts, infrastructure orchestration
 - **Monitoring & Logging:** OpenTelemetry, log aggregation, performance monitoring
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Design & Web Publishing

UX/UI Design

- **Figma:** Design system creation, component libraries, collaborative design workflows
- **Design Systems:** Component documentation, brand consistency, design tokens
- **Prototyping:** Interactive prototypes, design validation, user testing
- **Accessibility:** WCAG compliance, inclusive design principles

Web Publishing & Site Management

- **Builder.io Integration:** Visual site builder, live publication, dynamic content management
 - **On-Premise Deployment:** Self-hosted site management solutions for client infrastructures
 - **Content Management:** CMS integration, content publishing workflows
 - **Performance Optimization:** Site performance monitoring, optimization strategies
 - **Headless CMS:** Content delivery decoupled from presentation
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Technical Projects & Expertise

Mobile Application Development

Native Development:

- **iOS Development:** Native app development using Swift, Xcode integration, TestFlight deployment
- **Android Development:** Kotlin-based applications, Google Play deployment, device optimization
- **App Architecture:** MVVM, Clean Architecture, Dependency Injection

Hybrid & Cross-Platform:

- **React Native:** JavaScript/TypeScript-based mobile applications with native performance
- **Ionic Framework:** Hybrid web applications deployed to iOS and Android
- **Web Technologies:** Leveraging modern web frameworks for mobile deployment
- **Capacitor Integration:** Native API access in hybrid applications

Web Application Development

Modern JavaScript Frameworks:

- **React:** Component-based applications, hooks, state management (Redux, Context API)
- **Vue.js:** Progressive web applications, Vuex state management, composition API
- **Angular:** Enterprise-scale applications, TypeScript, RxJS, dependency injection

Next-Generation Frameworks:

- **Astro:** Content-focused websites with island architecture, partial hydration
- **Qwik:** Resumable applications with instant loading, fine-grained lazy loading
- **Svelte:** Compiled framework with reactive programming, minimal runtime

TypeScript Expertise:

- Full-stack TypeScript development
- Type-safe API development
- Advanced TypeScript patterns and best practices
- Type system optimization for large-scale applications

Backend & Cloud Integration

- **Firebase Services:** Authentication, Realtime Database, Cloud Firestore, Cloud Functions
- **API Development:** RESTful API design, GraphQL, microservices architecture
- **Node.js:** Express, Koa, Fastify, serverless functions
- **Python:** Automation scripts, backend services, data processing
- **Cloud Deployment:** Xcode Cloud automation, CI/CD pipeline implementation
- **Database Management:** SQL and NoSQL database design, optimization, and scaling

Automation & DevOps

- **Bash Scripting:** Advanced pipeline scripts, infrastructure automation, deployment automation
 - **Python Automation:** DevOps scripts, infrastructure management, automation workflows
 - **Automated build and deployment processes**
 - **Docker containerization**
 - **Kubernetes orchestration and cluster management**
 - **Cloud infrastructure management**
 - **Continuous Integration/Continuous Deployment (CI/CD)**
 - **Automated testing frameworks**
 - **GenAI-powered DevOps automation**
 - **Infrastructure as Code (IaC)**
 - **ArgoCD GitOps workflows**
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Business Information

Company: Hlaváč Business, s.r.o.

Founded: February 2016

Company ID (IČO): 50150880

VAT ID: SK2120205824

Business Registry: Mestský súd Bratislava III, Section: Sro, Insert No.: 142661/B

Address: Nivy Tower, Mlynské Nivy 5, 821 09 Bratislava - Ružinov, Slovakia

Business Activities:

- Computer services and software development
 - Native and hybrid mobile application development
 - Modern web application development (React, Vue, Angular, Astro, Qwik, Svelte)
 - Figma design system and Builder.io integration services
 - API development and integration
 - Kubernetes cluster management and GitOps solutions
 - GenAI-powered application development with MCP integration
 - AI-enhanced DevOps and automation
 - On-premise infrastructure management and consulting
 - Enterprise infrastructure consulting
 - Cloud platform consulting
 - Database design and management
 - IT consulting services
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Technical Expertise Details

Mobile Platforms

- iOS application lifecycle management
- Android app optimization and deployment
- React Native cross-platform development
- Ionic hybrid application framework
- Mobile UI/UX best practices
- App Store Optimization (ASO)
- Push notifications and background services
- Native module integration

Web Development

- **React Ecosystem:** Next.js, Gatsby, Create React App, Vite

- **Vue.js Ecosystem:** Nuxt.js, Vue CLI, Vite
- **Angular:** Angular CLI, Angular Universal (SSR)
- **Astro:** Island architecture, content collections, integrations
- **Qwik:** Resumability, progressive hydration
- **Svelte:** SvelteKit, reactive components
- **TypeScript:** Advanced types, generics, utility types
- **Figma Integration:** Design handoff, component libraries, design tokens
- **Builder.io:** Visual publishing, live site management, dynamic content

Kubernetes & Container Infrastructure

- **Cluster Management:** ArgoCD, GitOps workflows, multi-cluster management
- **Orchestration:** Kubernetes distributions (Minikube, OpenShift), container orchestration
- **Infrastructure Tools:** OpenCD, Helm, Kustomize, kubectl, infrastructure automation
- **On-Premise Deployment:** Client infrastructure management, self-hosted solutions
- **Networking:** Ingress configuration, service mesh, network policies
- **Storage:** Persistent volumes, StatefulSets, storage optimization
- **Security:** RBAC, network policies, secrets management

Cloud & Infrastructure

- Firebase platform expertise
- AWS, Google Cloud Platform, Azure
- Cloud storage solutions
- Real-time synchronization
- Scalable backend architecture
- Cloud security implementation
- Serverless architectures
- Edge computing
- On-premise infrastructure management

GenAI & AI Development

- LLM API integration (OpenAI, Anthropic, Google AI)
- MCP (Model Context Protocol) creation and deployment
- Prompt engineering and optimization
- AI-powered automation workflows
- RAG implementation and currently RAC implementation
- Vector databases and embeddings
- AI model fine-tuning and deployment
- Conversational AI development
- AI-enhanced code generation
- Custom MCP servers for enterprise solutions

DevOps & Automation

- **Bash Scripting:** Advanced pipeline automation, infrastructure scripts
- **Python:** Automation frameworks, DevOps tooling, custom utilities
- **CI/CD Platforms:** GitLab CI, GitHub Actions, Bitbucket Pipelines
- **Repository Management:** GitLab, GitHub, Bitbucket advanced features, Jira integration
- **Observability:** OpenTelemetry, distributed tracing, APM integration
- **Infrastructure as Code:** Terraform, CloudFormation, Helm, Kustomize

Development Tools

- Version Control: Git, GitHub, GitLab, Bitbucket
 - IDEs: Xcode, Android Studio, VS Code, WebStorm, Cursor
 - Project Management: Jira, Agile methodologies, Scrum, Kanban
 - Testing: Jest, Vitest, Cypress, Playwright, Unit testing, Integration testing, E2E testing
 - Design: Adobe Creative Suite, Figma, Sketch, Builder.io
 - AI Tools: GitHub Copilot, ChatGPT, Claude, AI-assisted development
 - Kubernetes Tools: kubectl, Helm, Kustomize, ArgoCD
 - Container Registries: Docker Hub, GitLab Container Registry, GitHub Container Registry
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Languages

- **Slovak:** Native
 - **English:** Fluent
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Professional Development

- GenAI integration and LLM application development with MCP creation (2024-Present)
- AI-powered DevOps and automation workflows
- Advanced AI agentic models research
- Modern JavaScript framework ecosystems (React, Vue, Angular, Astro, Qwik, Svelte)
- Hybrid mobile development with React Native and Ionic
- TypeScript advanced patterns and best practices
- Kubernetes cluster management and ArgoCD GitOps
- On-premise infrastructure management
- OpenTelemetry observability and monitoring
- Builder.io design-to-code automation
- VR technology applications for productivity
- Cloud architecture and modern DevOps practices

- Serverless and edge computing architectures
 - Infrastructure as Code best practices
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Interests & Activities

- Mobile app development and innovation
 - AI and machine learning applications
 - GenAI application development and LLM integration
 - Modern web framework experimentation
 - Kubernetes and container orchestration
 - Infrastructure automation and DevOps
 - VR gaming and technology
 - Mathematical problem-solving
 - Graphic design and UI/UX
 - Design systems and component libraries
 - Technology experimentation and automation
 - Open-source contributions
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References

Available upon request

Last Updated: October 2025