Michael Dovhalov

Full-Stack Software Engineer

I am dedicated to building scalable and self-explanatory code, leveraging the latest tools and technologies. My approach is rooted in the 'T-shaped' model, with a strong focus on back-end development, complemented by a growing expertise in front-end development and deployment strategies.

Work Experience

2023 - Present as **Fullstack Software Engineer**
Bitcoin Suisse / Zug, Switzerland

Contributed to Swiss financial services provider specializing in cryptocurrencies and trading services for clients. Bitcoin Suisse leads the market in cryptocurrency investments, offering institutional brokerage services, custody solutions, staking, and secured loans, alongside cutting-edge technical developments. With over 300 employees, Bitcoin Suisse maintains its position as a Swiss pioneer in the crypto industry.

Technical Contributions Highlights:
- Developing and maintaining a clustered Virtual Actor Model based on Microsoft's Orleans, significantly enhancing backend reliability and performance by scaling horizontally
- Developed event-sourcing architecture using Kafka, supporting thousands of events per second
- Creating and maintaining integration tests for microservices communication via Kafka
- Created Azure Pipelines from scratch for microservices working in Kubernetes clusters
- Resolving issues in the production environment
- Utilized TypeScript to develop React.js components
- Developing ASP.NET Core Blazor development for managing database records
- Stress testing application using JMeter and NBomber to assess system performance under high loads
- Azure Monitor and Application Insights with OpenTelemetry framework
- Implemented a Grafana dashboard for streamlined microservices monitoring

Soft-Skills Highlights:
- Displayed problem-solving skills by striving to understand the core issues and finding optimal solutions
- Onboarded a newcomer senior developer to the project
- Quickly integrated into the project and contributed by developing code and updating outdated documentation

2020 - 2023 as **Backend Software Engineer**
upSWOT / USA, South Carolina

Contributed to product development and customer support teams. Fintech solution offering customizable embedded finance widgets and actionable insights for businesses. Trusted by 100+ multinational financial institutions and partnered with industry leaders like Mastercard, Visa, NCR, NerdWallet, Alkami, RedHat, Republic Bank, FSNB, PwC, MX, CreditSafe, Equifax and more.

Product Team Highlights:
- Developed multi-tenant SaaS with Microservices and DDD Architecture, accommodating over 100 tenants per application instance
- Managed high-volume data flow through Kafka and ClickHouse, exceeding gigabyte-scale throughput
- Designing horizontally scalable architecture
- Identified and remediated over 25+ potential vulnerabilities, enhancing product security for the penetration testing and SOC2 certification
- Implemented SSO authorization using OAuth and SAML, integrating with more than 20 partners
- Created and maintained CI/CD pipelines using GitLab CI/CD, ensuring efficient development processes
- Implemented numerous RESTful APIs, developing dozens of API endpoints from scratch with strict performance requirements
- Designing and developing the backend for complex analytics web components
- Integrating AWS and GCP infrastructure solutions
- Guided strategic decision-making to tackle intricate challenges

Customers-support Team Highlights:
- Engaged in dozens of client calls to provide technical expertise and recommend optimal integration solutions
- Supporting client environments, handling numerous technical inquiries, ensuring prompt resolution and client satisfaction
- Clients assistance in technical discussions and troubleshooting
- Provided support to clients in designing and implementing integration solutions
- Workflow, deployment, architecture, use-case sequence, and data-flow diagrams

Soft-skills Highlights:
- Mentored 4 newcomers to the team, providing guidance and accelerating their onboarding process
- Demonstrated initiative by suggesting improvements in development planning and team organization
- Actively participated in retrospectives and grooming sessions
- Maintained composure and emotional control in high-stress situations
- Demonstrated adaptability when working with new colleagues
- Displayed a problem-solving approach, consistently seeking effective solutions rather than superficial fixes

Personal

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- Telegram: t.me/squikle
- Phone: +1 (416) 414-6089
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- Location: Toronto, Canada

Skills

- Backend, Frontend
- Containerization
- Microservices Architecture
- Cloud Computing Services
- CI/CD
- OOP, DDD, SOLID, Design Patterns
- Clean architecture and code
- Integration, Unit and Stress testing
- Multithreading, Asynchronous Programming

Stack

- ASP.NET Core
- Kafka
- MySQL, PostgreSQL, Microsoft SQL
- React
- Redux (RTK)
- JavaScript, TypeScript
- Redis
- MongoDB
- Jenkins, GitHub Actions, GitLab CI/CD
- Docker, Kubernetes
- AWS, Azure
- Elasticsearch
- WebSockets, SignalR
- HTML, CSS, Sass
- NGinx
- ClickHouse
- Orleans Framework
- gRPC
- Grafana
- Prometheus
- RabbitMQ
- Terraform

Education

State University of Telecommunications in Kyiv
Bachelor of Software Engineer
Completed in 2023

Certificates

Oct 2023 | Google Cloud Fundamentals
Core Infrastructure

Feb 2022 | OWASP Top 10
Complete Guide to OWASP Top 10