

# Michael Dovhalov

## FullStack Software Engineer

I am dedicated to building scalable and well-documented 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. I am committed to staying abreast of modern technologies to ensure timely and effective tool selection for optimal results.

## Work Experience

### 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:

- Multi-tenant SaaS with Microservices andDDD Architecture
- Huge data flow using Kafka and ClickHouse
- Horizontal Scalability
- WebSockets
- SSO using OAuth and SAML
- CI/CD pipelines
- RESTful APIs
- Web components architecture and development
- AWS and GCP infrastructure solutions integrations
- Making important strategic decisions to address complex challenges

#### Customers-support Team Highlights:

- Pre-sales calls participation
- Supporting client environments code and infrastructure
- 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 newcomers to the team, providing guidance
- 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

### 2023 - 2024 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:

- Clustered Virtual Actor Model based on Microsoft's Orleans, significantly enhancing backend reliability and performance by scaling horizontally
- Event-sourcing architecture using Apache Kafka
- Integration tests for microservices communication via Kafka
- Azure Pipelines for microservices and Kubernetes clusters
- Resolving issues in the production environment
- React components using TypeScript
- ASP.NET Core Blazor development for managing database records
- Stress tests using JMeter and NBomber to assess system performance under high loads
- Kafka Message Handlers using MediatR library
- Azure Identity for SSO authentication
- Azure Monitor and Application Insights with OpenTelemetry framework
- Setting up a Grafana dashboard
- Backend architecture documentation using UML

#### Soft Skills Highlights:

- Quickly integrated into the project and contributed by developing code and updating outdated documentation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

## Personal

- Website: [squikable.com](https://squikable.com)
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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

## Stack

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

## Education

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



## Certificates

Oct 2023 | Google Cloud Fundamentals  
Core Infrastructure Course

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