Filip Milošević
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Professional Summary

Backend engineer with expertise in high-performance computing, serverless architecture, and GraphQL API development. Skilled in multiple programming languages and cloud technologies with a track record of improving application scalability and performance.

Experience

Backend Engineer

Lambdaworks, Novi Sad, Serbia *(Oct. 2023 - Present)*

- Architected and implemented a data synchronization service between large-scale dining and nutrition applications, handling data for 100,000+ users.
- Enhanced service scalability through efficient database indexing and query optimization, reducing sync time by 40%.
- Designed and developed GraphQL-based public APIs, improving client application response times by 25%.
- Maintained core calculation engine for nutritional analytics application, implementing new algorithms for dietary analysis.

Software Engineering Intern

Lambdaworks, Novi Sad, Serbia *(Aug. 2022 - Sep. 2023)*

- Migrated a storytelling platform from serverless to monolithic architecture while adding major features, resulting in 30% reduced operational costs.
- Implemented comprehensive CI/CD pipeline using GitHub Actions, reducing deployment time from hours to minutes.
- Built and deployed a Shopify integration application using serverless architecture that automated product management for e-commerce clients.
- Enhanced mobile application for musicians with performance optimizations and user-requested features.

Projects & Contributions

- **Paint Assemble:** Developed a MS Paint clone using Rust and WebAssembly that enables users to draw, write and add shapes efficiently.
- **Actor Framework:** Designed and implemented a framework based on the Actor model supporting advanced features like message boxing and remote communication.
- **ZIO ElasticSearch:** Active contributor to open-source library, implementing new query types and improving test coverage by 15%.

Education

Master of Science in High-Performance Computing

Faculty of Technical Sciences, Novi Sad, Serbia *(2023 - Present)*

- Focusing on: HPC, Data Engineering, Cloud Computing, Blockchain Technologies.

Bachelor of Science in Applied Computer Sciences

Faculty of Technical Sciences, Novi Sad, Serbia *(2019 - 2023)*

- Key courses: Actor Systems, Microservices, Computer Graphics, AI, Optimization Methods.

Technical Skills

- **Languages**: TypeScript/JavaScript, Rust, Python, Go, Ruby, Java, C/C++, SQL
- **Frameworks/Libraries**: Node.js, Express, Prisma, GraphQL (Yoga, Apollo), Ruby on Rails, Django, FastAPI, WebAssembly
- **DevOps & Cloud**: GitHub Actions, Semaphore CI, Terraform
- **AWS Services**: Lambda, EC2, ECS, ECR, S3, RDS, DynamoDB, OpenSearch, Cognito, CloudWatch, VPC, IAM, Amplify, AppSync
- **Development Environment**: NeoVim, Alacritty, Tmux, Git, DataGrip

Languages

- **English** (Fluent)
- **Serbian** (Native)