

ALEKSA MILOJKOVIĆ

SOFTWARE ENGINEER

aleksa.milojkovic.bs99@gmail.com · +381 65 516 9135 · Niš, Serbia
linkedin.com/in/aleksa-milojkovic-629bb1439

PROFILE

Experienced and hardworking Full-Stack and Mobile Software Engineer with a strong background in delivering production-ready applications and leveraging edge services. Proficient across the stack with React, React Native, Angular, Kotlin, and Express. Experienced in managing complex data environments using MySQL, MSSQL, CockroachDB, and MongoDB. Passionate about DevOps and developer productivity.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, C#, Python, PHP, Bash
Frontend	Angular, React, Tailwind, Material UI, SASS
Backend	Express, Node.js, .NET, Cloudflare Workers, Hono
Mobile	React Native, Kotlin, Flutter
APIs	REST API design, OpenAPI specification authoring and consumption
SQL databases	MySQL, PostgreSQL, MS SQL, CockroachDB, D1 Database, Sequelize
NoSQL databases	Redis, Cloudflare KV Namespaces, MongoDB, Elasticsearch
Testing	Vitest, Playwright, Selenium
DevOps & tools	Git, Docker, CI/CD pipelines (GitHub Actions, Azure Pipelines, GitLab CI/CD), Linux server administration, AWS
Ways of working	Agile / SCRUM; effective working independently, in small and medium-sized teams, and leading small teams

PROFESSIONAL EXPERIENCE

Accordia Group LLC
Software Engineer

04.2023. - 06.2026.

Hedge Fund Portfolio Management System

ROLE Software Engineer: Full-stack developer

Portfolio management web application for hedge fund managers to oversee their securities and orders, including ETL data extraction and FIX message processing.

TECH STACK Angular v20, TypeScript, .NET 9, Grafana, Selenium, MS SQL, MongoDB

- Upgraded and maintained the production application across both the Angular front end and the .NET back end.
- Built UI modules for displaying complex financial data using modern Angular capabilities (signals, RxJS).
- Developed a system for processing FIX messages.
- Created new .NET services and synchronisation scripts for updating the database.
- Collaborated directly with the client to identify their needs and requirements.
- Used Claude Code extensively and created custom skills; worked with the team to upgrade the project so it can be used easily with Claude Code, and to make Multica useful for the project.

ETF Basket Management System

ROLE Software Engineer: Full-stack developer

Platform built by a four-person team for a hedge fund to track and manage ETF baskets of fixed income instruments (bonds and mortgages), replacing a manual, spreadsheet-driven process.

TECH STACK Angular, TypeScript, RxJS, REST/OpenAPI, Python

- Built the Angular front end, including the data views for baskets and instrument-level pricing.
- Integrated the ICE (Intercontinental Exchange) market data API and implemented the subscription layer that streams live prices to a web app and an Excel plugin in real time.
- Introduced automated OpenAPI document generation to keep the API contract in sync for consumers.
- Expanded automated test coverage for the new system and contributed to the CI/CD pipeline.
- Worked directly with the client to refine requirements around their existing trading workflow.
- Created the CLAUDE.md file and added Angular skills, and worked with the team to make the front-end code easily maintainable and upgradable by AI.

Universal Authentication System

ROLE Software Engineer: Full-stack developer

Authentication system replacing usernames and passwords with a distributed, zero-trust network that hides the user's identity, enhancing security and privacy.

TECH STACK React, Express, Cloudflare Workers, Node.js, React Native, Docker, KV Namespaces, MongoDB

- Upgraded and maintained the platform, building edge services on Cloudflare Workers for worldwide coverage.
- Developed the companion mobile authenticator app in React Native.
- Built CI/CD pipelines with GitHub Actions for automated testing, deployment and package publishing.
- Created and maintained public NPM packages and defined the Git branching strategy (GitLab Flow).
- Set up and maintained AWS servers.

Greek Island Tour Booking Platform

ROLE Software Engineer: Full-stack developer, team lead

Web application used by passengers on Greek island cruises to browse and request guided tours at their destinations, with the available offering driven by the ship's itinerary.

TECH STACK PHP, MySQL, JavaScript, Hostinger, Linux

- Maintained and extended the legacy PHP/MySQL application in production, working in a team of three.
- Refactored legacy code and brought the codebase in line with the PHP version in use.
- Implemented a scheduled process driven by the ship timetable that updates the attractions database on arrival, so passengers see the tours available at the island they have docked at.
- Handled the DevOps side, including migrating the application and its services from the client's existing provider to team-managed infrastructure on Hostinger.

Employee Time Tracking and Reporting System

ROLE Software Engineer: Full-stack developer, team lead

Internal resource management platform for tracking employee time and project budgets, with performance analytics and a central hub for personnel data and employee responsibilities.

TECH STACK React, Express, TypeScript, Tailwind, MySQL, Sequelize, Azure Pipelines

- Created and maintained the project, leading a small team and producing technical specifications and code documentation for onboarding developers.
- Built the React front end with TanStack Query and Tailwind, and an Express API with OpenAPI

specifications, modelling the database with Sequelize.

- Implemented reporting on users and project budgets, including integrating Azure tasks into the reports.
- Created MCP servers that let AI summarise users' daily and weekly reports and help the team generate weekly reports.
- Handled tickets, delivered product updates and built the release pipelines.

Accordia Group LLC

05.2022. - 07.2022.

Software Engineering Intern

Built "Mini Security Master", a web application for stock securities and options: designed the database, built the .NET (C#) back end and the Angular front end.

ACADEMIC & COURSE PROJECTS

- **ELK Stack with Packetbeat for network traffic analysis** · 11.2021. - 12.2021.
Set up the ELK stack (Elasticsearch, Logstash, Kibana) with Packetbeat to monitor the university's network traffic, with dashboards for HTTP and TLS traffic. Course project for "Computer Network Design".
- **Android camping application** · 06.2022. - 09.2022.
Camping trip planner with live user locations and activities on OSM maps ("Android Development" course).
- **Mapping out Austria's Public transportation system** · 03.2026. - 05.2026.
End-to-end geospatial pipeline over Austrian OpenStreetMap data: PostGIS spatial analysis, OGC API-Features endpoints behind a React/Leaflet client, and SUMO traffic simulation analysed with GeoPandas and MovingPandas to surface congestion and emission hot spots.
- **Multimodal media player** · 07.2026. - 08.2026.
Built a fully offline Linux media controller in Python and PyQt, driven by hand gestures and voice. A custom 1D-CNN gesture model reached macro-F1 0.930 under leave-one-group-out validation, a grammar-constrained Vosk recogniser raised voice recognition from 78.6% to 100%, and the pipeline is covered by 197 tests.

EDUCATION

Faculty of Electronic Engineering, Niš

10.2025. - present

Master of Computer Science and Informatics: GPA 10 / 10

Focus on geospatial systems and mobile development. Master thesis: designing and implementing a GIS mobile application for biologists tracking butterfly populations in field research.

Faculty of Electronic Engineering, Niš

10.2018. - 12.2023.

Bachelor of Computer Science and Informatics: GPA 9.3 / 10

Focus on computer networks and back-end systems for web applications. Bachelor thesis: designing and implementing an artificial intelligence system for finding anomalies in computer network traffic.

Certifications

- CCNA: Computer Networking, Cisco Academy, Niš · 12.2022. - 05.2024.
- NDG Linux Essentials, Niš · 12.2022. - 05.2023.

LANGUAGES, INTERESTS & ADDITIONAL

Languages

- Serbian - Native
- English - C1
- German - B1

Additional

- Driving licence — category B
- Member of Mensa

Interests

- Board games and card games
- Hiking
- Reading books