

BAKIR ĆINJAREVIĆ

 +387 61 670 705  admin@bakircinjarevic.com  linkedin.com/bakir-cinjarevic  github.com/bakir004  bakircinjarevic.com

Education

Faculty of Electrical Engineering Sarajevo

Bachelor of Electrical Engineering — Computer Science and Informatics

Expected Graduation: July 2026

Sarajevo

- Silver Badge — **GPA: 9.27**
- Courses: Software Engineering, Mobile app development, Operating Systems, Computer Architecture, Numerical algorithms, Algorithms and Data Structures, Artificial intelligence, Web Development, Embedded systems

Work Experience

Faculty of Electrical Engineering

Teaching assistant

October 2025 – January 2026

Sarajevo

- Taught the subject **”Introduction to Programming”** to a group of **30 students**, to introduce them to basic programming concepts with visualizations, concrete examples and interesting applications of the material, improving their chances of passing the subject by **27%**

Faculty of Electrical Engineering

Teaching assistant

March 2025 – June 2025

Sarajevo

- Taught the subject **”Programming Techniques”** to a group of **24 students**, to expand on their knowledge of fundamental programming concepts, improving their chances of passing the subject by **18%**

Projects

Zmanger | Website | Source Code

NextJS | Typescript | Rust | PostgreSQL

- Developed and deployed a full-stack SaaS web application that enhanced academic experiences of **140+ ETF students**
- Helped improve the overall student experience on ETF programming subjects by giving them a platform to do and check their homework **instantaneously**, reducing latency by an average of **99.98%**, replacing the legacy 24-hour batch-processing cycle and increasing their chances of passing the subjects by **30%**
- Utilized **NextJS** as the fullstack framework, **Clerk** for authentication, **PostgreSQL** for data storage and **DigitalOcean/Hetzner** for cloud hosting
- Implemented Robert C. Martin’s **Clean Architecture**, separating and decoupling the core business logic from the rest of the application, making it easier to swap out some technologies for others
- Developed a **Rust** based remote code execution tool for running and testing **C** and **C++** code, that supports **multithreaded** out-of-order execution of user-submitted code, easily scalable with **Docker**

Kubernetes Cluster | Source Code

K3s | OTelP | ArgoCD | Helm | Grafana

- Built a high-availability, self-healing **Kubernetes** cluster for hosting multiple replicas of frontend, backend and database, and **GitOps** pipelines via **ArgoCD** for declarative infrastructure management
- Secured external traffic using **Traefik ingress** and provided TLS certificates for external services, all behind Cloudflare’s proxy for rate limiting and controlled access
- Deployed a full observability stack with **Loki**, **Grafana**, **Tempo**, **Prometheus** using **OpenTelemetry** for distributed tracing and system metrics

Leadership

Teaching | Elementary Math | Digital Design | Computer Architecture | Programming

March 2024 – Present

- Founded and taught a **60 hour elementary math course** necessary for **entry exams** and studying at **technical faculties** to **10+** high school graduates
- Held group lessons for **25+ second year students** of ETF for subjects like Computer Architecture, Digital design and Programming Techniques, totaling **50 hours** of lessons

Technical Skills

Languages: TypeScript, C++, C, SQL, HTML5, CSS, JavaScript, Java, C#, Rust

Developer Tools: K3s, Git, Docker, Linux, Hetzner, Postman

Libraries/Frameworks: ReactJS, Quarkus, PostgreSQL, NextJS, NodeJS