

BAKIR ČINJAREVIĆ

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Education

Faculty of Electrical Engineering Sarajevo

Expected Graduation: July 2026

Bachelor of Electrical Engineering — Computer Science and Informatics

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

October 2025 – January 2026

Teaching assistant

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

March 2025 – June 2025

Teaching assistant

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