

Aldin Velić

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LINKS

[LinkedIn](#), [GitHub](#), [Portfolio](#)

PROFILE

- **Computer Science & Informatics** graduate from the Faculty of Electrical Engineering, University of Sarajevo, GPA **9.88**.
 - Backend-oriented full-stack developer, focused on **clean, reliable, and maintainable software**.
 - Project experience with:
Languages: Java, C / C++, C#/.NET, Python, JavaScript, Kotlin
Web: Spring Boot, ASP.NET Core, React.js, Node.js / Express, REST APIs
Databases: PostgreSQL, MySQL, MSSQL, SQLite, Oracle
DevOps & cloud: Docker, GitHub Actions, AWS, Terraform, Nginx
Mobile: Kotlin (Android, Jetpack Compose)
 - **Deployment** experience from managed platforms to **custom AWS infrastructure** provisioned with **Terraform**, backed by **CI/CD pipelines** for builds, tests, and static analysis.
 - Applies **black-box and white-box testing** throughout development.
 - Builds and ships personal projects; participates in coding challenges and hackathons.
 - **Teaching assistant and programming tutor** — strong communication, mentoring, and problem-solving skills.
 - **Soft Skills Academy** graduate — teamwork, presentation, and fast learning.
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EXPERIENCE

Mar 2026 — Present

Undergraduate Teaching Assistant — Object-Oriented Analysis and Design, Faculty of Electrical Engineering Sarajevo

- Supporting understanding and application of **design patterns**, including **creational, structural, and behavioral patterns**, within object-oriented software design.
 - Assisting students in **object-oriented system modeling** using **UML**.
 - Supporting understanding of **object-oriented design principles** and **software development methodologies**.
 - Guiding students through **C# and the .NET platform**, including object-oriented programming concepts and data collections.
 - Assisting in the development of web applications using **ASP.NET Core MVC**, covering environment setup and project configuration.
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Mar 2026 — Present

Undergraduate Teaching Assistant — Mobile Application Development, Faculty of Electrical Engineering Sarajevo

- Assisting students in developing **Android applications using Kotlin**, starting from creating and configuring the first mobile application.
- Guiding students through **Jetpack Compose** for building user interfaces, including UI structure, layouts, and input controls.
- Supporting development using **Jetpack Compose**, including state management, UI resources, lists, and navigation concepts.
- Assisting with mobile application testing, integration of **web services** using **Retrofit and Kotlin coroutines**, and implementation of **data persistence** (e.g., SQLite) and **Content Providers**.

Mar 2026 — Present

Undergraduate Teaching Assistant — Fundamentals of Computer Networks, Faculty of Electrical Engineering Sarajevo

- Assisting students in understanding fundamental **computer networking concepts**, including the **OSI and TCP/IP models**.
 - Supporting learning of core networking protocols such as **IP, ARP, DHCP, and DNS**.
 - Guiding students through key networking topics including **IP addressing, subnetting, and routing**.
 - Supporting students in analyzing network communication and understanding how data is transmitted across network layers.
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Mar 2026 — Present

Undergraduate Teaching Assistant — Digital Signal Processing, Faculty of Electrical Engineering Sarajevo

- Assisting students in understanding **discrete-time signals and systems**, including signal classification, sampling, and time-domain analysis of **LTI systems**.
 - Supporting learning of key transform-domain methods such as **DTFT, DFT, and the Z-transform**.
 - Guiding students through concepts of **frequency response, transfer functions**, and the design and analysis of **digital filters**.
 - Supporting practical work related to **FIR and IIR filter structures**, signal processing algorithms, and simulation using numerical computing tools.
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Mar 2026 — Jun 2026

Software Engineering Intern, Atlantbh

- Built full-stack applications using **Spring Boot (Java)** and **React**.
 - Implemented **REST APIs**, business logic, and frontend interfaces.
 - Integrated backend services with databases and managed data flow between system components.
 - Collaborated in an **agile development environment** using **Git**, participating in code reviews and team-based software development.
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Nov 2025 — Feb 2026

Undergraduate Teaching Assistant — Introduction to Programming, Faculty of Electrical Engineering Sarajevo

- Assisted students during lab sessions by introducing **fundamental programming concepts** and guiding them through basic exercises in **C**.
- Provided support in understanding procedural programming, data types, control structures, and the use of functions.
- Helped students grasp key topics such as **arrays, pointers, and memory management** through hands-on examples.

Mar 2025 — Sept 2025

Undergraduate Teaching Assistant — Programming Techniques,
Faculty of Electrical Engineering Sarajevo

- Assisted students with **structured and modular programming techniques in C++**, including functions, references, default parameters, and function overloading.
- Guided students through the use of **standard C++ libraries**, containers, iterators, and standard algorithms for sorting and searching.
- Supported understanding of **dynamic memory management**, including pointers, dynamic allocation, memory leaks, smart pointers, and exception-safe programming.
- Assisted students in applying **object-oriented programming concepts in C++**, such as classes, encapsulation, constructors/destructors, inheritance, and polymorphism.

Apr 2025 — Sept 2025

Programming Tutor, Encode

- Provided tutoring in **C and C++ programming** with a strong emphasis on object-oriented programming principles.
- Helped students understand key OOP concepts such as classes, objects, inheritance, polymorphism, encapsulation, and abstraction.
- Guided students through the design and implementation of **OOP-based** projects and exercises.
- Supported exam and coursework preparation by explaining theoretical foundations and applying them to practical coding problems.

Jun 2024 — Sept 2024

Tutor in Mathematics, Encode

- Provided individual and group tutoring sessions in **mathematics** for university and high school students.
- Helped students grasp fundamental and advanced mathematical concepts through clear explanations and step-by-step problem solving.
- Assisted in preparation for exams and coursework, focusing on **calculus, linear algebra, and discrete mathematics**.
- Encouraged analytical thinking and built student confidence in approaching complex mathematical problems.

EDUCATION

Oct 2023 — Jul 2026

Bachelor's Degree in Electrical Engineering — Computer Science and Informatics, Faculty of Electrical Engineering, University of Sarajevo

- **Thesis:** *Implementation and Analysis of Token Bucket and Leaky Bucket Algorithms for Rate Limiting in REST APIs*

VOLUNTEERING

- Engaged in various **volunteer initiatives**, contributing to community support and humanitarian campaigns.
- Served as a **programming tutor at PlusUltra+**, delivering C++ lessons to high school students to encourage early interest in software development.
- **Former member of the Red Cross**, where I participated in community assistance programs and humanitarian drives.
- Took part in volunteer actions and **youth projects organized by SHL** (Schüler Helfen Leben) and the **Mozaik Foundation**, supporting initiatives in education, youth empowerment, and social responsibility.