

# Tijana Petrovic

## Student at Faculty of Technical Sciences

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🌐 <https://tijanas-portfolio.netlify.app>

As an Information Engineering graduate and Signal Processing master student at the Faculty of Technical Sciences in Novi Sad, I am passionate about the intersection of mathematics, statistics, computer science and data engineering.

I believe in the importance of continuous learning and skill development. I am committed to expanding my knowledge and capabilities, whether through formal education, self-study, or hands-on projects. I am particularly enthusiastic about learning from mentors and experienced colleagues, as their guidance and insights are invaluable in navigating the complexities of the field.

My academic journey has been guided by a passion for problem-solving and interest in using data to drive innovation and make informed conclusions. I am excited to continue growing in this field and to contribute to projects that make a meaningful impact.

### Education

- Grammar School 'Isidora Sekulic', Novi Sad 2017-2021
- University of Novi Sad 2021- present
  - Faculty of Technical Sciences
  - GPA: 9.21

### Experience

- Data Analyst Internship at company Levi9 2024
- Web programming internship at company Synechron 2025

### Skills

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|----------------------|---|
| • Data Analytics     | Python, Java, C#, C, C++, JavaScript, SQL |
| • Data Processing    | Vue, React, Spring Boot, .NET, WPF        |
| • Statistics         | Git                                       |
| • Web Development    |   |
| • Database           |   |
| • MS Excel           |   |
| • English (C2 level) |   |
| • Docker             |   |
| • NoSQL databases    |   |

# Projects

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- Travel application

Developed microservice application using Eureka server, Go and C# for backend development and React for frontend development. Deployed application using Docker. Used https and gRPC for communication between microservices. Learned about tracing, logging and monitoring using Prometheus, Grafana and Jaeger

- Food delivery application

Learned about project architecture and team conventions. Started using more advanced Git/Github techniques. Developed web application using Spring Boot and React, with a special reference to human computer interaction. Made integration with external Python microservice for NLP.

- Predictions using different prediction algorithms in Python

Learned about logistic and linear regression, random forest, decision tree, SVM algorithms, evaluation metrics, data preprocessing, data analytics using charts.

- Social media-like application Only Buns

Developed backend using Spring Boot Framework and designed frontend using Vue.Js framework. Learned about advanced web programming features such as message queuing systems, rate limiting mechanisms and application-level caching.

- Data Analysis using services available on the Amazon Web Services Platform

Project during my 3 week internship in company Levi9. Used Pandas and PySpark and AWS managed services for data analysis. Used AWS S3 for uploading data for further processing, then AWS Glue Crawler in order to enable efficient analysis through the Athena service. Established data quality rules, verified data transformations using AWS Glue services.

## Achievements and awards

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- Diploma 'Vuk Karadzic' for excellent success in grammar school
- State scholarship in college
- Cambridge English Level 3 Certificate in ESOL International (Advanced)\*  
(ability at Level 3\* and Council of Europe Level C2)

## Personal information

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Portfolio: <https://tijanas-portfolio.netlify.app>