

## Danilo Potpara

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### Education

#### Faculty of Electronic Engineering, University of Niš

Bachelor with Honours in Electrical Engineering and Computing

Bachelor Thesis: Generation and Rendering of Complex 3D Scenes using the WebGPU API

Niš, Serbia

May 2025

#### Electrical Engineering School "Mija Stanimirović"

Specialization: Information Technology Technician

Niš, Serbia

June 2018

### Experience

#### Atessoft DOO - Outsourcing & Development

##### Software Developer

Niš, Serbia

May 2022 - Present

Worked as part of an outsourcing team delivering software solutions for **Horizon Internet Technologies**, a Netherlands-based startup focused on construction and law enforcement tools.

- Developed **Horizon View**, a platform that is used to define conversion rules and workflows to process incoming data - such as construction sensor output - using **Angular (v10-19)**, **RxJS**, **Material UI** and **Grafana**
- Integrated **Firebase** and configured **Firestore** and **Google Cloud** for **Horizon View** to support real-time data and scalable storage
- Implemented end-to-end automated testing for **Horizon View** using **Cypress**, ensuring platform stability and continuous integration readiness.
- Built **Django** back-end features for **FQST**, a tool helping law enforcement agencies track events from local news sources
- Contributed **Django** components for **BQST**, a system used for indexing business parks using publicly available data.
- Implemented **ReactJS** interface components for **SignaleringsTool**, a reporting tool for identifying issues in commercial buildings
- Engineered **Angular**-based front end for **Ambitiweb**, a sustainability tracking app; integrated **Chart.js** for data visualization and **Bootstrap** for responsiveness
- Contributed to **Sight View**, a blockchain-based transparency solution for the construction domain using **Angular**, **ReactJS**, **Redux** and **ApexCharts.js**
- Designed and built a **Flutter**-based mobile app for **SPIE**'s inventory system, integrating **Keycloak** for authentication and supporting multi-warehouse tracking

#### Course Projects - COVID Tracker, Pet Shop Apps, Cinema System, and Blockade AI

##### Front-End Developer

Niš, Serbia

November 2021 - February 2022

- Built two **Angular** web applications; designed **MongoDB** database for Pet Shop, **Neo4j** for Covid Tracker
- Developed a Cinema System project and designed the data mart, optimizing it for analytical queries and reporting
- Implemented a **PHP-Mailer**-based alert system to notify users of exposure at events
- Developed an AI for the board game **Blockade** using Python, applying the Min-Max algorithm with Alpha-Beta pruning as part of an Artificial Intelligence course project

**Software Engineering Course Project - LIBRARIUS**  
**Front-End Developer**

Niš, Serbia  
March 2021 - Jun 2021

- Created a web app for a distributed library system using **Angular** and **Material UI**
- Developed authentication/authorization and book request features across libraries
- Participated in the database design, defined schema structure and entity relationships.

**IT Project of the Year - ESSOS**  
**Team Leader / Desktop App Developer**

Niš, Serbia  
January 2018 - May 2018

- Led winning team in the "IT Project of the Year" at Metropolitan University
- Developed a desktop app using **C#** (.NET Windows Forms) enabling emergency communication between Android and Windows apps
- Implemented video/audio streaming, GPS location sharing, and messaging features

**Skills & Interests**

**Technical:** Angular, TypeScript, JavaScript (intermediate); C, C++, C# (intermediate); Python, Java (beginner); Cypress, Material UI, RxJS, Git, Flutter, Django, GraphQL, MongoDB, MySQL, Neo4j, Oracle

**Language:** English (B2 - Upper Intermediate)

**Soft Skills:** Strong communication, persistence, teamwork, adaptability

**Interests:** Game development, 3D rendering, AI in games, D&D