

DANIEL SPAREMBLEK

Pursuing MSc in Computer Science (Artificial Intelligence)

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EXPERIENCE

Network Operations Intern

Croatian Academic and Research Network

📅 Aug 2020 - Sep 2020 📍 Zagreb, Croatia

- Configured MikroTik routers and created a script for automated network speed testing
- Technologies used: Python and Expect (Tcl extension) for automated scripting; RouterOS for local storage and log files on MikroTik routers; PHP, JavaScript, JQuery (with AJAX), and HTML for front end web interface
- Field work: setting up new infrastructure in schools, universities, and institutions
- Result: Web interface for automated network speed testing per router IP

Research and Development Intern

Alfatec Group

📅 Jun 2020 - Aug 2020 📍 Zagreb, Croatia

- Supported an R&D Project by researching NoSQL and SQL GPU databases to determine what infrastructural requirements need to be met
- Liaised with research professors
- Result: Reported on infrastructural requirements and improvements to BI Team Lead to help company partners (e.g., AI/automation, Robotics, retail, e-commerce) to support data analysis and data warehouse maintenance

Full Stack Development Intern

Erste Group Card Processor

📅 Aug 2019 - Sep 2019 📍 Zagreb, Croatia

- Built a new Single Page Application for internal company purposes
- Technologies used: Java, Spring Boot, TypeScript (Angular framework), SQL (PostgreSQL and Oracle databases)
- Result: Connecting back end and front end services with nested JSON parsing on frontend

EDUCATION

MSc in Computer Science, AI option (120 ECTS expected)

KU Leuven, Faculty of Engineering Science

📅 Oct 2021 - Jun 2024 (expected) 📍 Leuven, Belgium

- Optiver's TraderHack 2022 (hackathon in Python) - finished 6th out of 110 teams

MSc in Computer Science

University of Zagreb, Faculty of Electrical Engineering and Computing

📅 Oct 2020 - Sep 2021 📍 Zagreb, Croatia

- Preparation for MSc Thesis: *Overview of Tools for Physically Based Rendering* - Blender scripting in Python
- Member of the organizational team (IT Sector) for STEM Games 2021

BSc in Computer Science (190.5 ECTS)

University of Zagreb, Faculty of Electrical Engineering and Computing

📅 Oct 2017 - Sep 2020 📍 Zagreb, Croatia

- BSc Thesis - *Tracking of a Human Body in Motion using OpenPose Library*
- Tutored students in Mathematics, Physics and Programming

PROJECTS

Wi-Fi Touch Lamp 📅 Nov 2020 - Dec 2020

Lead Developer

- IoT project developed in C++ (Arduino) linking two microcontrollers in LED lamps so they can communicate anywhere in the world
- Open-source project on GitHub

Festivizer 📅 Oct 2019 - Jan 2020

Lead Developer

- Android application developed in Java for easy festival organization
- Selected 5th out of 63 student teams in course Software Design

Eerie 📅 Oct 2019 - Jan 2020

Lead Developer

- 3D video game developed in C# using Unity
- Selected 3rd out of 15 student teams in course Fundamentals of Digital Game Development

BeerBrewer 📅 Mar 2019 - Jun 2019

Lead Developer

- Android application developed in Kotlin for brewing beer
- Project as a part of course Application Development for Android OS

SKILLS

Languages: Python, Java, C++, SQL, C, C#, Perl, Kotlin, Prolog, Haskell, MATLAB, PHP

Technologies: Git, Firebase, Flask, Linux, Blender, LaTeX, Spring Boot, Angular, Visual Paradigm (UML), OpenGL, Google Cloud, OpenCV, Keras (Tensorflow)

Relevant Coursework:

Algorithms and Data Structures | OOP
Distributed Systems | Linear Programming
Nonlinear Optimization | Databases
Android Development | Machine Learning
Computer Vision | Data Mining
Discrete Mathematics | Operating Systems
Theoretical Computer Science | Compilers
Network Programming | Computer Graphics
Probability and Statistics
Software Architecture
Modelling of Complex Systems