VLADIMIR SURTAEV

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SKILLS

`C/C++` `CMake` `Python`
`Bash` `JavaScript` `SQL`

`Algorithms` `Data Structures`
`ML & DL`

`Unix OS family` `Git / Gerrit`
`Docker` `Scrum`

ABOUT ME

I am a third-year ICT student at OAMK, with extensive experience in software development and proficiency in multiple programming languages. Three characteristics that define me include a keen interest in learning, a strong sense of responsibility, and a fearless approach to challenges. I have consistently honed my communication skills, critical thinking, and emotional intelligence throughout my academic and professional journey. Thriving as both a team member and colleague, I excel in collaborative settings, leveraging my ability to connect with others.

LANGUAGES

English: Fluent

Finnish: B1 - B2

SIDE COURSES

- **Mooc.fi** Java programming
- **Nokia Bell labs:** 5G foundation
- **Tinkoff Generation:** Deep Learning
- **Tinkoff Generation:** Machine Learning

EXPERIENCE

R&D Embedded SW Developer Thesis worker | Nokia

📅 Oct 2023 – Apr 2024   📍 Oulu, Finland

- Implemented a robust log analyzer to get info about MAC Security protection on a given interfaces using Python.
- Designed and developed a front-end for visualizing the analyzer results using React framework.

R&D Embedded SW Developer trainee | Nokia

📅 May 2022 – Sept 2024   📍 Oulu, Finland

- Implemented a buffer capacity monitoring to estimate current occupancy without performance impact on real time core using near real time data analysis
- Created an extendable and easily configurable log analyser, which made a fault investigation process faster using python and delivered it as a plugin to an automated snapshot analyser
- Automated test environment creation using python and network interface virtualisation, which has decreased the testsuite execution in 2 times
- Optimised a fast memory usage by 10 % by correcting buffer size with near real time measurements
- **Skills gained:** advanced C++ & Python, CMake, CppUTest, Gerrit, Scrum, Docker, Automated testing, bitbake

EDUCATION

Bachelor in Information technologies | OAMK

📅 Sep. 2021 – Jun. 2025   📍 Oulu, Finland

- **GPA:** 4.9 / 5 **OP:** 198 ECTS
- **Key Courses:** Computer devices and operating systems, Cloud services, Java programming, Object Oriented Programming, Software Engineering, Kotlin android development, React framework, Data storage and data analysis

PROJECTS

Bank extract analyser 🐙

📅 Aug. 2023

- Implemented a tool which helps categorizing transactions, by remembering the categories
- **Technologies used:** Python3, SQLite

Data visualization web-app 🐙

📅 Nov. 2022 – Dec. 2022

- Implemented data storage in back-end
- Implemented visualizations components in front-end

- Organized team work, time planning and drafted application architecture
- Managed a development process with a scrum-like methodology
- **Technologies used:** Node(+Express)JS, PostgreSQL, Docker, ReactJS, Kanban

Deep Learning Framework from scratch

📅 Nov. 2022

- Implemented a PyTorch-like framework using only NumPy Got 0.98 accuracy on hand-written digits classification problem
- **Technologies used:** Python, NumPy, PyTorch, Deep Learning, Machine Learning

Ecological monitoring system (School project)

📅 Nov. 2018 – Mar. 2021

- Developed a MCU (Arduino, ESP8266) software for ecological monitoring device
- Developed a back-end that collects and stores data for analyse purposes
- **Technologies used:** Python, SQL, C