Aleksei Terin

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From machine learning to web development to data structures & algorithms.

PROFESSIONAL EXPERIENCE

📈 Software Engineer Trainee May 2024 – Dec 2024
Vaisala Oy, Helsinki
- developed a web graphing framework to streamline data visualization
- cut internal development time by 2x, saving on bugs and costs
- presented results to >200 staff
- supported integration into 2 production projects

React, Node, Typescript, data processing and visualization, visual snapshot testing, Bitbucket, Jenkins, Docker, Azure

⚽ Full-stack developer Jan 2023 – May 2024
Copa de Kuutio, SYK, Helsinki
- solo shipped a full-stack (MERN) web application for organizing football tournaments
- designed web architecture, integration tests, user authentication etc.
- supported >700 active users

MongoDB, ExpressJS, React, Node, requirements analysis, Microsoft Azure, Git, CI/CD

🐦 Level design trainee Feb 2023
Rovio Puzzle Studio HQ, Espoo
- interned at Rovio Puzzle Studio HQ with a focus on level design and beta testing
- completed a Rovio Design Intern Test on Angry Birds Match

Level design, A/B testing, game development, report writing

EDUCATION

Data Science at Aalto University

Helsingin Suomalainen Yhteiskoulu (SYK)
- IB score: 44/45
- Focus on computer science
- Case study on autonomous rescue robots

PROJECTS

📊 Unwrapped Mobile App
- full-stack application to analyze WhatsApp chat messages and visualize findings
- cross-platform React Native frontend
- Python data crunching backend with machine learning

♟ Chess Match-3
- a match-3 game fusing chess piece mechanics
- written in Unity, 3D modeled in Blender

🧩 Puzzle Game Solver Algorithm
- a Java implementation of Donald Knuth's Algorithm X
- scouts through the entire solution space in seconds for a puzzle game that would take humans hours

🔑 RoomMates Mobile App
- a mobile social media application prototype to connect people over hobbies
- earned my team 1st place at Nexus Hackathon 2023

More on GitHub…
- steganography
- tower of Hanoi
- functional Java IDE

HONORS & AWARDS

- **TuKoKe 2024**: national research finalist, paper on synthetic data generation for computer vision models
- **Datatähti 2022-23**: two-time national C++ competitive programming finalist
  - represented Finland internationally in Nordics
- **Nexus Hackathon 2022-23** by Junction: 1st place in Rovio category, 1st place overall
- **WSDC 2022-23**: Twice international debate representative for Finland, Best New Nation Team