

# Dat Minh Lam

SOFTWARE / AI ENGINEER



## BACKGROUND

A Master's Degree student currently majoring in Software Development and minoring in Machine Learning at Tampere University. I mostly did backend development but picked up frontend development for my Bachelor's thesis. I am actively seeking experience, learning new tech stacks from the industry and integrate AI into daily life/workflow meaningfully

## EXPERTISE

- Programming languages: Python, C++, Java, SQL, Scala, JavaScript, TypeScript
- Frameworks: React, Flask, FastAPI
- Critical thinking and problem solving
- Communication skills
- Teamwork skills

## LANGUAGE

- Native proficiency: Vietnamese
- Professional proficiency: English
- Elementary proficiency: Finnish, Japanese

## PERSONAL WEBSITE

<https://datminh-lam-portfolio.vercel.app/>

## CONTACT INFO

Github: <https://github.com/pasiones>

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Location: Tampere, Finland

## EXPERIENCES

### Junction Hackathon 2025

*Our team created a solution to automate the incomplete delivery process end-to-end (challenge track is called Zero-fail logistics by Valio Aimo)*

AI-Enhanced Delivery Optimization Project

- Processed order, stock, and supplier/quality data to train predictive models forecasting potential item shortages using Python (**pandas**, **scikit-learn**, **XGBoost**, **NumPy**).
- Partially contributed to frontend design (**React + TypeScript**) and backend deployment (**FastAPI**, **MariaDB**) on Google Cloud.
- Integrated **LangChain** chatbot for automated customer notifications (calls/text) and replacement confirmations.
- Team placed 6th out of 15 in a competitive track, despite all members being first-time participants.

## QUALIFICATIONS

### Tampere University

*Bachelor of Science, Electrical and Computer Engineering (2022-2025) (Graduated)*

- Majored in Software Development and minored in Machine Learning
- Studied basic DSA using **C++**,
- Designed backend architecture following **OOP** principle for apps such as weather app, electricity outage detection/prediction app using **C++** and **Java**.
- Had experiences build simple UI for the mentioned apps using **React.js**
- Used **Linux** ubuntu virtual machine for most of my programming course.
- **GPU & Multicore Parallel** Programming – Optimized a C program using compiler flags, implemented **OpenMP** for multicore CPU parallelism, and ported the code to **OpenCL** for GPU execution, performing performance benchmarking across implementations.

### Tampere University

*Master of Science, Web, Software and Cloud (2025-2027) (On-going)*

- Software engineering project course: Mainly responsible for frontend development (**React**) of a Jira plugin that provides AI assistance for bug reports. I also contributed in the prompt engineering for the LLM. A **Kanban** board on Trello was used to keep track of the progress.
- Learned to integrate **CI/CD** pipeline into the development process of software projects and deploy them on cloud infrastructure such as **CSC**, **GCP**