

CASIMIR LUNDBERG

SOFTWARE DEVELOPER

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PROFILE INFO

Software developer with a curious, analytical mindset and a background in aviation system administration and operations. Through managing critical systems, coordinating multi-airline operations, and instructing technical procedures in high-stakes environments, I learned the value of precision and systematic problem-solving. Having built modern development skills at Hive Helsinki, I'm ready to bring both technical capability and operational discipline to software development.

EDUCATION

HIVE HELSINKI (2023-2025)

Rigorous project-based software development program emphasizing peer collaboration and independent learning. Successfully completed the core curriculum, solving complex programming challenges across multiple domains and developing strong problem-solving, code review, and technical research skills.

VAASA AFTONSKOLA

Matriculation examination

TECHNICAL SKILLS

- C, C++, Python, Typescript
- React, node.js, Fastify
- Tailwind.css
- Docker, Makefile
- Linux, Glt
- Nginx
- Prisma, SQLite

SOFT SKILLS

- Teamworking
- Responsibility
- Multitasking
- Decision making
- Sociability
- Adaptability
- Analytical thinking
- Playful mind

LANGUAGES

- Swedish (Native)
- English (Fluent)
- Finnish (Fluent)

PROJECTS ([more @ CasimirLundberg.fi](http://more@CasimirLundberg.fi))

WebPONG([Typescript](#), [React](#), [Fastify](#), [Tailwind.css](#))

A full-stack web application inspired by Pong, featuring multiplayer, AI opponents, tournaments, and customizable matches. It uses React with TypeScript and Tailwind on the frontend, a Fastify backend connected to an SQLite database through Prisma, and is deployed with Docker and Nginx. The app includes secure authentication with JWT and MFA via OTP, full ARIA-compliant accessibility, and multi-language support.

Donna Ai Agent([Python](#), [Gcloud run](#), [OpenAI API](#), [FastAPI](#))

An AI-powered chat agent for my portfolio website (casimirlundberg.fi), providing visitors with interactive access to my professional background and GitHub projects through natural conversation. Built with FastAPI and Python, integrated with OpenAI's GPT API for intelligent responses and custom function calling for real-time GitHub data retrieval. Features enterprise-grade security with rate limiting, API authentication, and usage monitoring, deployed on Google Cloud Run with Docker containerization.

MiniBASH(C)

A Unix shell built in C that replicates core Bash functionality, including command execution, pipes, redirections, environment variable expansion, and signal handling. It features a custom lexer and parser for interpreting user input, process management via fork and execve, and careful memory and error handling to ensure stability.

WORK EXPERIENCE

Aviator Finland

2013 - PRESENT

Aircraft Weight and Balance Instructor & Officer – Performed weight and balance calculations for aircraft load planning in compliance with safety standards, while instructing both manual and computerized methods. Established Helsinki as a centralized load control hub, coordinated daily ground operations for multiple airlines, and ensured smooth handling of ad-hoc flights.

System Administrator (Departure Control Systems) – Administered and configured airline Departure Control Systems, defining business rules and managing access for 200+ users. Collaborated with service providers to maintain system stability and compliance, and led implementation of new infrastructure including self-service bag drop and check-in systems.