

# 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, Git
- 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://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](http://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.