

CASIMIR LUNDBERG

SOFTWARE DEVELOPER



CONTACT

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TECHNICAL SKILLS

- C
- C++
- Python
- Typescript
- React
- Node.js
- Fastify
- Docker
- Linux
- Git
- Makefile
- Tailwind.css
- Nginx
- Prisma
- SQLite

EDUCATION

Hive Helsinki

2023 - 2025

Intensive Software development and administration program. Including a diverse set of problems to solve using a range of technologies.

Vaasa Aftonskola

Matriculation examination.



PROFILE

A software developer with a strong foundation in responsibility and precision, gained in the aviation industry. I am used to working as part of a team and have learned to quickly assimilate new technologies while studying at Hive Helsinki. I have a curious, childlike mind and love solving problems. I am now eager to demonstrate my new skill set and contribute to the tech industry.



WORK EXPERIENCE

Aviator Finland

2013 - PRESENT

Operations officer | System administrator

- **Aircraft weight and balance Instructor and Officer**, responsible for load planning and performing weight and balance calculations for aircraft.
- Instructed both manual and computerized weight and balance methods, according to industry standards.
- Maintained training and procedural documentation.
- Responsible for establishing Helsinki as a centralized load control hub, managing weight and balance for other stations.
- Coordinated daily ground operations for multiple client airlines, including ad-hoc flights.
- Worked closely with client airlines to ensure seamless operations.
- **System administration** of the Departure Control System (DCS), including system configuration and user management of 200+ users.
- Defined and maintained business rules in the system, liaised with the service provider, and carefully managed user access due to sensitive information.
- Responsible for Setting up new systems and infrastructure (such as self-service bag drop and check-in machines).
- Learned the importance of precision, and the need to double-check all work.
- Gained broad insight into various systems used across the aviation industry.

Servisair Finland

Passenger service agent

2011 - 2013

- Provided customer service at check-in for several international airlines.
- Oversaw flight turnaround coordination at gates, ensuring on time departures and high level of customer service.
- Also responsible for teaching gate coordination, and upholding relevant documentation.
- Learnt how to cope in high stress environments, and how to manage challenging customer interactions.

SOFT SKILLS

- Problem solving
- Responsibility
- High work ethic
- Adaptability
- Analytical thinking
- Teamworking
- Multitasking
- Decision-making
- Sociability
- Playful mind

LANGUAGES

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



PROJECTS (more @ casimirlundberg.fi)

Webserv (C++)

- An HTTP1.1 webserver written in C++.
- Learned the inner workings of webserver, including configuration parsing, response handling and connection management.
- Implemented support for CGI scripts written in Python.
- Learned Socket programming, I/O Handling and Network protocols.
- Designed protection against a range of malformed input.

Minibash (C)

- A BASH inspired shell written in C.
- Implemented input parsing with support for pipes, heredocs, file I/O redirection, and environment variables.
- Process Management using (fork(), waitpid() and execve()).
- Ensured efficient memory management with no leaks.
- Rigorous testing, to ensure reliability.
- Built custom builtins: cd, pwd, export, unset, env, echo and exit.
- Signal handling.

Cube3D (C)

- A Wolfenstein 3D style 2.5D raycaster.
- Implemented map parsing, Raycasting, texture mapping.
- Using a graphics library.
- Multithreading for efficiency.
- Animated sprite rendering.

WebPONG (React, Typescript, Fastify, Tailwind)

- A full-stack web project built around PONG.
- Using Typescript, React and Tailwind in frontend.
- Using Fastify, Prisma and SQLite in backend.
- User management with secure JWT and MFA via OTP.
- Two player matches, single player vs AI, Tournaments.
- Match customization.
- Full screen-reader accessibility (ARIA standards).
- Multi-language support.

Born2BeRoot

- A Linux (Debian) system administrator project.
- Setting up a Linux server.
- Managing users and user rights in Linux.
- Creating monitoring scripts (using different methods like cron jobs etc.).
- Using SSH and setting up ports.
- Overall operations and commands in a Linux environment.

Philosophers (C)

- The famous philosophers puzzle,
- Multithreading with high precision.
- Mutexes and careful synchronization to avoid deadlock and data races.