

JOONAS TUOMI

SOFTWARE ENGINEER

PROJECTS

Ping-Pong Fullstack — Multiplayer 3D Gaming Platform

 GitHub

2025 - 2026

- Developed a feature-rich 3D Pong and Web3D multiplayer game platform in a team of 5, acting as the Project Manager (PM).
- Designed responsive component architectures (Astro, Preact, TailwindCSS, DaisyUI) and built user-facing layouts.
- Developed REST APIs, designed relational database schemas (PostgreSQL / Astro DB, Drizzle ORM), and integrated real-time WebSocket communication.
- Implemented secure user authentication featuring OIDC integration and custom session management.

Enroll — Open Source Linux Application

 GitHub

2024 - Present

- Developed a production-ready GUI Rust application for managing user hardware fingerprints.
- Successfully packaged, maintained, and deployed the application to Flathub, securing over 3,000 global installations within the first two months.
- Established automated CI/CD pipelines using GitHub Actions to run tests, build binaries, and handle Flathub deployments.
- Worked with low-level system integrations and modern build tooling to ensure cross-distribution reliability.

EDUCATION

Advanced Systems & Infrastructure Projects

Hive Helsinki

2024 - 2026



CONTACT

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Helsinki, Finland

LINKS

BlueSky 

Homesite 

GitHub 

LinkedIn 

SKILLS & TOOLS

Systems & Backend:

Linux, Go, Rust, C, C++, Java

Containers & CI/CD:

Docker, GitHub Actions

Web & Scripting:

TypeScript, Bash, OIDC

Tools & Databases:

PostgreSQL, Git, Flathub

- Engineered multiple low-level projects in **C and C++**, focusing on manual memory management, system calls, and strict performance constraints.
- Utilized **Docker** to containerize development environments, isolate dependencies, and orchestrate multi-container setups.
- Collaborated in fast-paced peer teams using **Git** for version control, code reviews, and continuous iteration on complex architectures.

Introduction to Programming & Advanced Programming (Java) - MOOC

University of Helsinki

2020

- Completed a comprehensive online course covering core Java programming and object-oriented concepts, establishing a solid foundation for the JVM environment.

WORK HISTORY

Group Leader & Educator

City of Helsinki (Education Division)

2023 - 2024

- Managed operational responsibilities for children during after-school programs.

LANGUAGES

Finnish : native

English : C1

Swedish : B2