TIMOTHY CAMPBELL

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Aspiring **software developer** with hands-on experience in **full-stack development** and a background in **startup operations** and **project managemen**t in food-tech. Passionate about backend development, particularly **API design**, **microservices**, and building well-tested applications. Skilled in **C, C++, Python, Typescript** and **JavaScript**, and experienced with modern backend tools and frameworks. My operational background has equipped me with **strong problem-solving skills**, **a collaborative mindset**, and the ability to **drive projects independently**.

WORK EXPERIENCE

Huuva Oy   12/2022 - 10/2023

Process Developer/Product Owner

- Executed and oversaw project plans for **15+ brand launches** in 10 kitchens
- Designed process improvements in **hiring strategy, waste control, kitchen output**
- **Subject matter expert** in a team which implemented an inventory tool across 10 kitchens in 6 months
- Responsible for **maintaining data quality, custom support** and upkeep of inventory tool.
- Managed full-cycle recruitment for all kitchen roles, including **overseas hiring**, **hiring plans**, and **budgeting tools** for proactive workforce planning

Huuva Oy   10/2021 - 12/2022

Launcher/ Kitchen Expansion

- Successfully managed the launch of 6 **cloud kitchens** across Finland
- Recruiting and hiring teams for each kitchen
- Directly responsible for **100K€+ budgets** for each project
- Building and **presenting business cases** for potential launch sites

PROJECTS

Pong Web App (Javascript, Typescript)

Collaborated in a team to design and develop a full-stack, containerized web application using **React** and **Fastify**, structured as **microservices** with SQLite for persistent storage. My main role was **building APIs**, integrating backend services with databases, and **developing frontend React components** with API communication. Implemented **automated testing** and **CI/CD pipeline** using **Github Actions**, **Jest** and Fastify's built-in tools.

Tarot Card Shuffler (ThreeJS, Tailwind)

Built and enhanced a Tarot card shuffling app, using **ThreeJs** to animate and improve the UX and **Tailwind** to improve UI. The app shuffles a deck of cards, zooms and animates on hover and deals amounts of cards based on user input. The app is currently deployed on render

HTTP Web Server (C++, Python)

Part of a team that built an HTTP web server from scratch with **NGINX**-style config parsing, **HTTP request/response handling**, and **CGI execution** via Python. **Designed the architecture**, implemented custom memory management for event handling, and developed the configuration parser. Used **Postman, Locust & Siege** for testing HTTP methods.

2.5D Ray-casting Game (C)

Built a **Wolfenstein-style 2.5D** game from scratch using ray-casting, featuring t**extured rendering**, **collision detection**, and **custom map parsing**. Developed the map parser, implemented **animated sprites**, and used **multi-threading** to optimize performance and responsiveness.

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SKILLS

- Relentless work ethic & eagerness to learn
- Project management & team training
- Great problem solving & analytical thinking
- Excellent communication & cross-functional collaboration

- Scripting and automation
- Agile development & CI/CD workflows
- Data driven decision making & process optimisation
- Version control & API integration

TECH & TOOLS

Programming Languages
- C
- C++
- Javascript
- Typescript
- Python

Frameworks & Libraries
- React
- Fastify
- Express
- Flask
- TailwindCSS

DevOps/Tools
- Docker
- Linux
- Bash
- Github Actions
- Google Cloud

Testing
- Jest
- Curl
- Postman
- Playwright
- Pytest

EDUCATION

HIVE HELSINKI   10/2023 - 06/2025
- Software Development

HELSINKI UNIVERSITY   11/2024 - Present
- Full Stack Open (MOOC) - Web development

ECM COLLEGE - DUBLIN - IRELAND   2015 - 2016
- Diploma of Business Management

EDITH COWAN UNIVERSITY - PERTH, AUSTRALIA   2009 - 2012
- Bachelor of Science - Exercise & Sport Science

LANGUAGE

- English (Native)
- Finnish (A2.1)

References available upon request