Levente Szajkó

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Profile

Software engineer with hands-on experience in backend services, distributed systems, and self-hosted cloud infrastructure (Docker, CI/CD, IaC, GitOps). Currently completing an MSc in Computer Science at DTU with a cybersecurity specialization (thesis on ML-assisted cyber risk prioritization), actively seeking a full-time role.

Work Experience

Student Software Developer, Continia Software – Copenhagen, DK *August 2025 – August 2026*

- Independently owned bug investigation, core backend implementation, testing, and release documentation for enterprise software products used by international clients.
- Delivered production feature improvements and maintained release stability through structured automated testing, debugging, and code reviews in a CI-driven workflow.
- Collaborated end-to-end on high-availability enterprise services, from diagnosis to production release.

Junior Tech Consultant, CP Consult ApS – Copenhagen, DK *February 2025 – August 2025*

- Developed and maintained backend integrations and custom enterprise modules for international business clients.
- Designed data pipelines and scalable analytics architectures using modern cloud storage solutions and data lakes.
- Translated client requirements into production-ready technical solutions with clear ownership from architecture to deployment.

Student Developer, Aeon Group – Copenhagen, DK *January 2024 – January 2025*

- Built interactive web interfaces with SCSS and Vite, improving performance, modularity, and UX across multiple product modules.
- Resolved critical bugs and refactored application modules, directly improving system reliability and uptime.
- Developed an AI-powered conversational service using Microsoft Semantic Kernel and LLMs for automated data ingestion and onboarding.

Software Engineer Intern, VENZO – Aarhus, DK *August 2023 – January 2024*

- Contributed to internal full-stack services, transforming product requirements and Figma architectures into production code.
- Designed the foundational backend and component architecture for a SaaS platform focusing on scalability and clean separation of concerns.
- Refactored legacy codebases and built reusable frontend components to speed up team development velocity.

Education

DTU – Danmarks Tekniske Universitet, MSc Eng in Computer Science and Engineering *February 2025 – Ongoing*

- **MSc Engineering degree** in the final semester (2026–2027); thesis work continues alongside employment.
- **Specialization / minor:** Cybersecurity.
- **Focus areas:** Machine learning, large-scale algorithms, distributed systems, and systems security.
- **Coursework:** Algorithms for Massive Data Sets, Image Analysis, Applied Cryptography, Model Checking, Distributed Real-Time Systems, Ethical Hacking.

VIA University College, Bachelor in Software Technology Engineering *Sept 2021 – January 2025*

- **Bachelor of Engineering** degree with a specialization in Data Engineering.
- **Coursework:** Software Development (Java, .NET, UML), Database Systems, Algorithms and Data Structures, DevOps and Cloud Computing.

Projects

Experimental Agent Harness & MCP Tooling (Collaborative Project)

- Built a lightweight collaborative agent harness integrating LLMs with the Model Context Protocol (MCP) to automate workflows and tool execution.
- Implemented an asynchronous internal message board / coordination layer for multi-agent dispatching and context synchronization between local services.
- Integrated custom tool-calling endpoints for real-time telemetry and domain-specific APIs, handling JSON schema validation and retry loops.
- Hands-on experimentation with prompt grounding, context window management, and mitigating tool execution failures in practical side-projects.
- **Tools:** Python, TypeScript, Model Context Protocol (MCP), REST APIs, JSON Schema, WebSockets.

Homelab Infrastructure

- Designed and operate a multi-host Docker-based homelab with full Infrastructure-as-Code: declarative YAML manifests, JSON Schema validation, and automated pipelines.
- Built a custom Python deployment engine detecting Git changes, generating dynamic Traefik routing configs, and deploying via Portainer API with health checks.
- Implemented end-to-end Jenkins CI/CD covering validation, image builds, secret retrieval from self-hosted Vaultwarden, Traefik config sync over SSH, and stack updates.
- Runs shared storage, Traefik reverse proxy, DNS, and MkDocs site as a fully reproducible GitOps workflow across heterogeneous hosts.
- Gained hands-on experience with Linux administration, container orchestration, networking, and distributed systems by continuously improving and breaking our own infrastructure.
- Contributed a patch to the Linux kernel backlight subsystem (`sprintf()` → `sysfs_emit()` in sysfs show callbacks), merged into mainline (v7.3).
- **Tools:** Docker, Portainer, Traefik, Jenkins, Python, YAML, JSON Schema, Vaultwarden, MkDocs, Git, SSH, Linux.

Master's Thesis: ML-Assisted Cyber Risk Prioritization *Ongoing*

- Developing an ML-assisted approach for cyber risk prioritization combining attack-path analysis with knowledge graphs.
- Improves security risk triage through structured graph reasoning and machine learning.

Bachelor's Project: ML-based Farmland Boundary Prediction

- Built a convolutional autoencoder model to automatically digitize land boundaries from satellite imagery for Aeon Connect.
- Handled end-to-end data acquisition, preprocessing, model training, and evaluation in a geospatial ML context.
- **Tools:** Python, TensorFlow, Google Earth Engine.

Technologies

Languages: Python, C#, TypeScript/JavaScript, Java, SQL, Bash, HTML/CSS, LaTeX
Core & Infrastructure: Linux Administration, Docker, Traefik, Jenkins, CI/CD, GitOps, Git, .NET Core, REST APIs
AI & Agentic Systems: Model Context Protocol (MCP), Semantic Kernel, LLM Integration / Tool Calling, TensorFlow
Tools & Cloud: Azure, Terraform, PostgreSQL, Portainer, JSON Schema, YAML, React, Next.js, Vite, MkDocs

Languages

Hungarian: Native | **English:** Full Professional Proficiency | **German/Danish:** Conversational