

Skills

- Programming:
 - Python
 - R
 - Rust
 - Java
 - SQL
- AI tools:
 - PyTorch
 - TensorFlow
 - Stable Baselines 3
 - CUDA
- Tools:
 - Git
 - Docker
 - Ansible
 - Tailscale
 - Nvidia Nsight
 - AWS

Certifications

- Databricks Fundamentals
 - AWS ML Foundations
- NVIDIA Certifications:
- Getting Started with Deep Learning
 - AI Infrastructure & Operations Fundamentals
 - Accelerating End-to-End Data Science Workflows
 - Evaluation & Customization of LLMs
 - Accelerated Computing in CUDA C/C++
 - Secure AI/ML-Driven Software Development (LFEL1012)
 - Fundamentals of Open Source IT and Cloud Computing (LFS200)

Education

BSc & MSc in Artificial Intelligence
Vrije Universiteit Amsterdam

Sep 2020 - Aug 2025

Projects

BSc Thesis: Implementing Reinforcement Learning for Profiling Self-Adaptive Systems

- Extended the MockSAS Python library with a DingNet IoT scenario profile to study multi-armed bandit policies in self-adaptive systems
- Modelled a configurable IoT node network, enabling new policies to be benchmarked without modifying core library code

MSc Thesis: Multi-Ontology Augmentation for LLM-Based Cooking Instruction

- Designed a multi-agent conversational AI system integrating domain ontologies and databases across three LLM providers (GPT-4 Mini, Claude 3.5 Sonnet, Grok 3 Mini).
- Built a deterministic benchmarking and LLM-as-judge evaluation pipeline over 270 simulated teaching conversations and 8 pedagogical dimensions, revealing provider-specific effects of ontology grounding (e.g. 13.9% score drop for Claude 3.5 Sonnet).

Reinforcement Learning for Robotic Simulation and Hardware

- Trained DQL, PPO, and DDPG agents in CoppeliaSim for mobile navigation and manipulation tasks in partially observable environments, then transferred policies to physical robots by iteratively refining environment and sensor models to reduce sim-to-real degradation.

Experience

AI & Digital Solutions Consultant

January 2026- Present

Aktiv Asia Management Pte. Ltd. · Singapore / Remote

- Evaluated AI and financial software solutions (QUALCO, IBS, MonsoonSIM, AI Rudder), analysing capabilities and technical fit for client environments
- Produced banking and fintech market analysis for Indonesia & Southeast Asia to inform technical solution positioning
- Owned and managed Aktiv Journal's AI content, writing and reviewing articles on applied AI use cases in fintech and financial services

Infrastructure and Home Automation Engineer

Feb 2026 - Present

Independent Consulting

- Designed and operated a smart-building platform integrating 170+ KNX devices with Home Assistant over KNX/IP to centralise lighting, HVAC, and sensor control for a multi-zone property.
- Standardised deployment with Ansible, Docker Compose, and encrypted secrets, cutting full-stack redeploy time from hours to minutes and enabling secure remote access via Tailscale dashboards for 11 climate zones.

Cybersecurity and Infrastructure Consultant

Dec 2025 - Present

Ankur Consulting · Remote

- Supported the assessments for PCI-DSS, SOC 2, and ISO 27001 across fintech, banking, and manufacturing clients
- Mapped security controls to real-world system components, identifying gaps and supporting engineering teams in achieving compliance

Teaching Assistant

Jan 2022 - Aug 2025

Vrije Universiteit Amsterdam

- Delivered lab sessions, seminars, and tutoring across Information Management, Machine Learning, Digitalization and Sustainability, and Learning Machines
- Guided students through implementing ML and deep RL algorithms, grading assignments and providing structured feedback
- Consistently reappointed over three years based on technical competence and reliability