



Vlad Iftime

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EDUCATION

University of Groningen

2021 – 2026

Master's degree, Computational Intelligence and Robotics, Artificial Intelligence

Groningen, Netherlands

- Notable courses: Multi-agent systems, Cognitive Robotics, Pattern Recognition, Robotics for AI, Deep Reinforcement Learning.

University of Groningen

2018 – 2021

Bachelor of Science - BS, Artificial Intelligence

Groningen, Netherlands

- Notable courses: C++, Robotics I/II, Neural Networks, Parallel Computing, Self-organizing systems, Object-Oriented Programming.

EXPERIENCE

Software Developer → Project Lead

Dec 2024 – Dec 2025

Seita

Groningen, Netherlands

- Orchestrated a 10-person cross-organizational team for a multi-stakeholder energy flexibility initiative, aligning goals across Seita, TNO, and Itho Daalderop.
- Architected the integration of TNO's Dynamic Programming algorithm into the FlexMeasures EMS, adding WebSocket support for secure, real-time HVAC device communication.
- Established robust CI/CD pipelines utilizing Docker and automated testing to ensure high code quality across the project lifecycle.
- Advocated for the European S2 protocol (EN 50631-1) for smart energy devices, contributing to open-source repositories (s2-python, flexmeasures-client) and representing the project at FOSDEM.

Software Developer

Jan 2020 – Feb 2023

Tym Variant

Brasov, Romania

- Engineered scalable, custom software solutions including CRM systems, mobile apps, and responsive websites for small-to-medium enterprise clients.
- Spearheaded full-stack development life cycles utilizing React.js, Next.js, C#, Java, PostgreSQL, AWS, and Docker.
- Facilitated close client collaboration to gather requirements, iterate features, and deliver efficient, user-focused designs.

Embedded Software Engineer & Team Lead

Jul 2022 – Feb 2024

Top Dutch Solar Racing

Groningen, Netherlands

- Directed electrical and software engineering teams to seamlessly integrate complex embedded systems for a high-performance solar vehicle.
- Engineered robust embedded software in C on STM microcontrollers and designed custom PCBs via Altium Designer to ensure reliability in extreme environmental conditions.
- Instituted Agile methodologies across technical teams, optimizing workflows and ensuring on-time delivery of critical project milestones.

PROJECTS

Asymmetric Self-Play for Dual-Arm Robotic Manipulation | Isaac Lab, PyTorch

Jan 2025 – May 2026

- Developed a dual-agent adversarial self-play reinforcement learning framework (PPO + Behavioral Cloning) in Isaac Sim, training two adversarial policies—a goal-proposer and a goal-solver—to autonomously generate and master a curriculum of dual-arm manipulation tasks on UR5e robots without manual reward engineering.
- Integrated cuRobo's GPU-accelerated batch IK solver into the RL training loop, building a custom kinematic pipeline that decodes discretized policy actions into 6-DoF end-effector delta targets across up to 4096 parallel environments.

- Designed a permutation-invariant GoalEncoder network that compresses multi-object goal states into learned 8D latent embeddings, enabling the solver agent to condition on abstract goal representation. It also creates a way to train high-level agents to control the low-level solver.
- Implemented a single-agent Push-PPO baseline with a 4D macro-action space and multi-phase push primitive trajectory generator, enabling direct comparison between learned adversarial curricula and conventional dense-reward RL.

Social Link Sharing Platform with SvelteKit and Firebase | *SvelteKit, Firebase*

Dec 2023 – Jan 2024

- Developed a full-stack, Linktree-inspired web application featuring real-time data manipulation and complex form handling.
- Engineered secure user authentication and scalable backend database management utilizing Firebase.

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

Web Frameworks: React, Node.js, Angular, SvelteKit, Tailwind CSS

Cloud & DevOps: Docker, Kubernetes, Google Cloud Platform, Firebase, CI/CD Pipelines

Methodologies & Management: Agile Project Leadership, Scrum Master, Process Mining, Stakeholder Management

