

Michel Yildirim

Software engineer · CS MSc student in AI, Aarhus University
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Software engineer at Morch Solutions, working on a mix of client projects across different codebases and stacks. I also work on AI projects and the occasional competition, mostly reinforcement learning, NLP and LLM agents.

EXPERIENCE

Morch Solutions	Aarhus, Denmark
<i>Junior Software Engineer</i>	<i>Jun 2024 – Present</i>
- Work across a portfolio of clients, from small businesses to enterprise, often switching between codebases, stacks and domains within the same day. - Field-service platform for cable and broadband providers: technician booking and scheduling, job tracking, equipment orders and Wi-Fi labels. - The full IT system for a rehearsal-space business: bookings for bands, musicians and teachers, check-in, door codes, room maintenance and their expansion into podcast studios. - Smaller end-to-end web apps, and well-scoped technical tasks such as API integrations for enterprise clients. - Agentic development as the default way of working: coding agents do much of the implementation, and my time goes into scoping, review and verification. - CI/CD, deployment and DevOps: automated build, test and release pipelines in GitLab, and Docker.	
CLAN, Aarhus University	Aarhus, Denmark
<i>Research Assistant</i>	<i>2025 – Present</i>
- No Hands: research on programming by voice, for developers with motor impairments. - Set up and ran a user study on how well current AI tools support voice programming. - Building a prototype VS Code extension that turns speech into code edits and editor commands using LLM tool use.	
Aarhus University	Aarhus, Denmark
<i>Teaching Assistant</i>	<i>Aug 2023 – Dec 2025</i>
- Taught 25+ students per semester in object-oriented programming in Java. - Wrote an automated runner that tests student submissions against test suites to support grading. - Taught introductory object-oriented modelling (UML) and JavaScript in a digital fundamentals course.	

RESEARCH, PROJECTS & COMPETITIONS

Danish Championship in AI – solo entry	2025
- Tumour segmentation in medical images (computer vision). - Reinforcement learning for a simulated car driving on sensor input. - A retrieval-augmented LLM pipeline for healthcare questions, tuned for accuracy and speed.	
Nitor Energy Quantitative Trading Case Competition	2025
Forecasting models on two years of hourly European power-grid data. Placed 12th of 45 teams.	
Wikinsert – bachelor project	Summer 2024
An entity-aware insertion tool for Wikipedia editors, built with CLAN at Aarhus University.	
Incommodities Case Crunch	2024
A LightGBM pipeline forecasting wind-energy yield from spatio-temporal weather data.	
AUHack	2024
Simulated CPU/GPU scheduling with dynamic priority queues. Honorary mention among 30+ teams.	

EDUCATION

Aarhus University	Aarhus, Denmark
<i>MSc Computer Science, specialising in AI</i>	<i>Aug 2025 – Jul 2027</i>
National University of Singapore	Singapore
<i>Exchange semester, School of Computing</i>	<i>Aug 2026 – Dec 2026</i>
Reinforcement learning and sequential decision making; smart systems and AI governance.	
Aarhus University	Aarhus, Denmark
<i>BSc Computer Science</i>	<i>Sep 2022 – Jul 2025</i>
Machine learning, linear algebra, compilers, distributed systems, programming languages.	
Nyborg Gymnasium	Nyborg, Denmark
<i>International Baccalaureate</i>	<i>Aug 2019 – Jul 2022</i>

SKILLS

Engineering: Web apps and back offices, APIs, CI/CD, Docker, Git, automated testing, code review
AI & ML: Agentic and AI-first systems, LLM tool use and MCP, fine-tuning, NLP, RAG, reinforcement learning, time-series forecasting, data pipelines, computer vision
Programming: Python, TypeScript, JavaScript, Java, Kotlin, PHP, C/C++, OCaml
Frameworks: PyTorch, TensorFlow, scikit-learn, LightGBM, pandas, Polars, SvelteKit, React, HTMX, Tailwind CSS, Maven, Gradle
Languages: English, Danish and Turkish, all native