

Mihai Timoficiuc

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WORK EXPERIENCE

FoodChain ID

Full Stack Software Engineer

Deventer, N

Jan 2024 - Present

- Build AI-driven document processing tools using Python to extract chemical substances and regulatory rules from complex PDFs and Excel files. Combine rule-based logic with LLM analysis to cut manual review time and costs by ~80%.
- Lead the migration from Domino/XPages to a modern Spring Boot and Angular 18 stack. Rebuild and optimize 60+ features while bridging legacy and new systems to improve maintainability and user experience.
- Develop a multithreaded data migration pipeline using Spring, PostgreSQL, and Docker to process 2M+ entities. Expand the regulatory knowledge base by ~50% and maintain containerized deployments with multi-stage CI/CD pipelines.
- Build secure, scalable backend services for cross-company data sharing and collaboration. Implement JWT authentication, strong domain models for substances and legislation, and production monitoring to ensure reliable regulatory workflows.

AISO (ABN AMRO)

AI Software Engineer

Amsterdam, NL

Mar 2026 - Jun 2026

- Selected from 100+ student interviews through AISO's screening process to join a 7-person team delivering an AI adoption project for ABN AMRO.
- Served as one of the main client contacts for ABN AMRO, leading communication and delivery within the team. Diagnosed why AI tooling stays underused across a ~70-person content organisation through stakeholder interviews and an adoption survey, then designed a hands-on workshop and handover handbook to get teams actually using it.
- Contributed to AURORA, an agentic content system that turns vague requests into grounded, compliant, fully auditable drafts for a regulated banking environment. Helped build the RAG retrieval pipeline over approved articles and an evaluator that scores AI drafts against the bank's 134-KPI quality standard. This fed into a final pitch for more agentic solutions, well received by ABN AMRO's Chief Digital Officer.

Topicus

AI Software Engineer

Deventer, NL

Feb 2025 - Apr 2025

- Led a team of 5 to evaluate AI-assisted methods for extracting 1,200+ frontend strings into centralized localization files. Compared transformers, LLM-based approaches, and rule-based techniques to identify the most effective solution.
- Prototyped and benchmarked multiple language-model driven extraction pipelines, ultimately ruling them out due to accuracy and reliability constraints on real-world code. Delivered a faster, more precise regex-based solution informed by empirical evaluation.
- Built and deployed an automated translation pipeline using the DeepL API with caching and validation. Completed English and Latvian localizations, saving 100+ hours of manual engineering effort.
- Reduced localization costs by ~€7,500 and accelerated market expansion by removing extraction and translation bottlenecks. Supported future rollout of the cancer screening platform to reach more people across regions.

CODE 932

Full Stack Software Engineer

Iasi, RO

May 2022 - Jul 2022

- Completed over 30 tasks for an acquisition platform using Laravel PHP, implementing screens based on design files, creating API endpoints for CRUD operations, and ensuring proper translation functionality.
- Designed and developed a booking platform prototype for a start-up client using ReactJS and Laravel, serving as a key milestone for advancing to the next TLR phase and attracting potential investors.
- Actively contributed to team meetings by reporting bugs, proposing improvements, and applying Scrum methodology to optimize task planning, time estimates, and on-time delivery.

Universiteit Twente*Teaching Assistant***Enschede, NL***Nov 2023 - Jan 2024*

- Assisted over 50 students in learning programming concepts such as multithreading, OOP, and algorithmic efficiency, while supporting them in completing weekly assignments for Module 2 of the BSc Business Information Technology.
- Graded 10-15 assignments weekly, delivering detailed feedback and actionable recommendations to improve student learning outcomes.
- Evaluated and determined pass/fail outcomes for 5 student project teams' final assignments, which accounted for 50% of their module grade, based on criteria such as proper implementation of the MVC architecture.

EDUCATION

Universiteit Utrecht*MSc Artificial Intelligence***Utrecht, NL***Sep 2025 - Present*

Relevant coursework: Deep Learning, Machine Learning for Human Vision and Language, Cognitive Modeling, Explainable AI, Requirements Engineering, Methods in AI Research, Philosophy of AI, ICT Startups, Science-Based Entrepreneurship.

- Combined core deep learning and machine learning coursework with an entrepreneurial track (Science-Based Entrepreneurship, grade 8.8; ICT Startups), bridging applied AI with product and venture thinking.
- Studied explainable AI and cognitive modeling alongside computer vision and language, focusing on building models that are accurate, interpretable, and aligned with how people actually work.

Universiteit Twente*BSc Business Information Technology***Enschede, NL***Sep 2022 - Jul 2025*

Relevant coursework: System Design, Web Programming, Databases, AI, Cybersecurity, Data Science.

- Completed courses in Data Science and AI (21 EC), tackling 20+ assignments on topics such as Computer Vision, NLP, Knowledge Representation, and Explainable AI, including a final project on patch-based retina recognition using autoencoders (grade: 8) and an advanced image classification assignment on mammary tumors (grade: 10).
- Planned and proposed the integration of personal information scanners into the vaccination workflow at Topicus Healthcare, projected to improve data quality and efficiency by 60%.
- Lead a team of 5 to develop a full-stack application for a media agency, earning the Best Project Award.

SKILLS & INTERESTS

Web Development: HTML, CSS, Javascript, Typescript, NodeJS, Java, PostgreSQL, ExpressJS, React, Angular, Spring, Docker.

AI Development: Python, TensorFlow, PyTorch, Scikit-learn, Keras, Transformers, LangChain, OpenAI API, Vector stores.

Interests: AI-Driven Solutions, Business Analytics, Leadership, Full-Stack Web Development, Solving real-world customer problems with technology, Team collaboration and efficient communication, Fitness, Karting.

Languages: C2 English.