



Mojmir Majer

Software Engineering Student

I am currently a student at the University of Groningen and have also been working as a fullstack software developer for almost four years.

Always looking to learn and grow, I'm particularly interested in the architecture and engineering of software systems.

CONTACT

@ mojmir.majer@gmail.com

+31 613 547 049

Groningen Netherlands

CONNECT

LinkedIn

GitHub

Instagram

LANGUAGES

Slovak native

English CEFR C1

Dutch A2

ACHIEVEMENTS



Certificate in Advanced English
CEFR C1



Blended Intensive Programme
BETA! University of Pardubice

WORK EXPERIENCE

2025 TNO - The Hague

Netherlands Organisation for Applied Scientific Research

Researcher - AI Optimization of Code for Sustainability

Python, AI/ML, Code Analysis, Energy Efficiency



- A nine month internship as part of my master thesis on AI for Green Code
- Compared LLM and prompt performance in reducing energy consumption of existing Python code
- Used machine learning to classify "optimizable" code samples
- Designed energy measurement experiments and statistical analysis
- Created a unique dataset of measured energy consumption before and after refactoring for further research

2024 ASML - Veldhoven

Advanced Semiconductor Materials Lithography

Software Engineer

Java, Software Maintenance and Evolution



- A two month course-internship
- Designed an adapter enabling customers to opaquely migrate to a new ASML platform without requiring changes to their existing integrations.

2021 - 2025 PosAm - Bratislava

Posonium Amerika; System Designer and Integrator

Full-Stack Software Developer

Spring, Angular, Robot Framework, Messaging, Observability



- Software design and implementation of a data replication and synchronization multi-tenant parking, integrating company agenda with parking lot systems for Spotico.
- Design and implementation of multi-tenant authentication for independently managed company users, integrating them into the Servio management solution.
- UI design and implementation multi-modal query forms in Angular.
- Design and initial implementation of an automated integration testing platform using Robot Framework.

EDUCATION

2023 - now RUG - University of Groningen

Software Engineering Master

Master thesis: AI Optimization of Code for Sustainability



- Software Architecture, Software Analytics, Software Maintenance & Evolution,
- Cloud Computing, Scalable Computing, Cloud-based Applications
- C4 Model for Software Architecture Modelling, Advanced Topics in Data Privacy, Social Network Analysis

2018 - 2023 UNIZA - University of Žilina

Informatics Bachelor

Bachelor thesis: Web portal for fans of aviation



UNIVERSITY OF ŽILINA

- Group project development: Web application for managing work shifts of stand-by support teams for Descartes Systems (Slovakia)
- Network Optimization, Advanced DB Systems, Architecture of Information Systems
- Focus on Object-oriented programming, Web Development
- Algorithms & Data Structures, Database Systems, Software Modeling, Graph Theory, Data Science, Probability & Statistics, Basics of Economics