

Michal Spano



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I am a passionate software engineer & mathematics enthusiast based in Sweden's Gothenburg, currently studying **Software Engineering, B.Sc.** at the joint department of Computer Science and Engineering, **Chalmers and Gothenburg University**. My current interests include **functional programming**, cloud computing, and abstract algebra & topology, hence bridging the gap between theoretical Computer Science, Software Engineering, and Mathematics. I also share passion for **teaching** and have been privately tutoring students since 2021.

Education

B.Sc. in Software Engineering

2022-Present

Chalmers and Gothenburg University

Gothenburg, Sweden

- 180 ECTS*
- Thesis (ongoing): "Trade-offs of Quantized LLMs for Requirements and Test Alignment"

Free-standing Courses

2022-2024

Lund, Linnaeus, and Gothenburg Universities

Sweden

- 60 ECTS
- Courses in Mathematics and Computing Science

High School Diploma

2017-2022

Private English Grammar School

Bratislava, Slovakia

- A (pass with distinction)
- Mathematics & Computer Science, English (C1)

Work Experience

Developer

2024-Present

Algeno AB

Gothenburg, Sweden

- Focusing on developing AI-driven tools to optimize energy use and temperature control in homes and workplaces.
- Technologies used: Next.js, TypeScript, Python, SQL, Docker

Research Assistant

2024

Chalmers University of Technology

Gothenburg, Sweden

- Contributed to a research project investigating teaching approaches and pedagogical methodologies for computer programming education.
- Focused on analyzing the impact of AI-aided tools and platforms supporting social annotations (e.g., www.perusall.com) on learning experiences in higher education.
- Technologies used: Python (Numpy & Pandas), R, \LaTeX , Haskell

IT Consultant & Developer

2023

Chalmers Teknologkonsulter AB

Gothenburg, Sweden

*European Credit Transfer and Accumulation System, 60 ECTS credits are the equivalent of a full year of study.

- Consultancy in IT sector, sales, participation in various projects with current industry partners.
- Project Manager responsible for the development of a mobile-based application (React Native) for the Regional Cancer Center (Sweden) aimed to help detect melanoma.

Teaching Assistant 2023-Present
Chalmers and Gothenburg University Gothenburg, Sweden

- My role revolves around grading coursework, offering individualized guidance to students, assisting with administrative tasks, and contributing to curriculum discussions.
- Courses I've been involved in: Object-Oriented Programming, Embedded Systems and C Programming, Systems Development, Requirements Engineering.

Fullstack Developer 2021-2023
Klas, s.r.o. Bratislava, Slovakia

- Participated in the website development (and the platform's UI/UX design) featuring contemporary visuals: www.klasfarm.sk.
- Technologies used: Next.js, JavaScript, Tailwind CSS, Shell & Linux administration, Python, Go.

Education Monitor & Board Member 2023-Present
Göta Student Union Gothenburg, Sweden

- Engaged in various aspects of education of the Faculty of Science and Technology (previously, IT faculty) and represented students in decision-making bodies.
- Chairman (2023-2024), Head of Finance (2024-2025) of *SKIP* Student Association, under Göta Student Union.
- Spearheaded the planning of events including Hackathons, seminars, and guest lectures with industry partners and alumni.

Technical Skills

- **Programming Languages:** Python, Haskell, Java, TypeScript, Go, C/C++, Assembly, Bash/Shell, R, MATLAB
- **Tools:** Pandas, NumPy & SciPy, Jupyter Notebook, Matplotlib, QuickCheck, Vue.js, Next.js, React (Native), Docker, MongoDB, SQL, CLI/Unix, \LaTeX , Git (GitHub/GitLab), Arduino
- **Other:** Open-source software, academic writing, Adobe After Effects & Photoshop, Figma, Affinity Photo, video editing, graphic and motion design

Language Proficiency

Language	Level
Slovak, Czech	Native
English	Native
Swedish	C1
German	B2
Spanish	B1

Projects

AppointDent 2024

- *AppointDent* is a website-based application using a microservices architecture aimed to assist Swedish residents manage dentist appointments and provides dentists with tools to organize their schedules efficiently.

MiniCarSteer 2024

- A data-driven algorithm to determine the steering angle of a miniature self-driving vehicle using sensor data, implemented in a Docker environment.

CompSci

2023

- A repository of programs demonstrating algorithms and various programming concepts, implemented across multiple programming languages.

Awards, Licenses & Certificates

- Winner of *ActInSpace* Hackathon (national round), 2022
- TOEFL iBT (Academic English), 2022
- Swedish as Second Language, *Folkuniversitet*, 2024
- CS50 Introduction to Computer Science, *Harvard University*, 2021
- Pre-University Calculus, *Technische Universiteit Delft*, 2022
- The Duke of Edinburgh's Award (Bronze), Slovakia, 2020