Michal Spano

Passionate Software Engineer

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📄 SUMMARY

Passionate Software Engineer and Mathematics enthusiast from Slovakia, currently based in Sweden's Gothenburg – a Student of **Software Engineering** at the joint department of Computer Science and Engineering at **Chalmers and Gothenburg University**. My current interest is in **Functional Programming** and **Category Theory**.

✏️ WORK

Research Assistant / Jan 2024 - present

Chalmers University of Technology, Sweden

I am involved in a research project that aims to examine teaching approaches and pedagogical methodologies of programming with AI-assisted tools in higher education.

`Research` `Programming` `Academic writing`

Teaching Assistant / Aug 2023 - present

Gothenburg University, Sweden

As a Teaching Assistant (Amanuens), my role revolves around grading coursework, offering individualized guidance to students, engaging with students and contributing to curriculum discussions. I've been involved in the courses: DIT043 *Object-Oriented Programming* and DIT046 *Requirements Engineering and User Experience*.

`Teaching` `Pedagogy` `Teamwork` `Communication`

Chairman / Jun 2023 - present

SKIP Student Association, Göta Studentkår, Sweden

Chairman of the SKIP Student Association at the University of Gothenburg for the academic year 2023/2024. I've spearheaded the planning of various events, such as Hackathons, Seminars and Guest Lectures with industry partners and alumni.

`Leadership` `Teamwork` `Management` `Communication` `Event Planning`

IT Consultant / Jan 2023 - Oct 2023

Chalmers Teknologkonsuler AB, Sweden

Consultancy in IT; participation in various projects with current industry partners.
Highlights: I've been a project Manager responsible for the development of a mobile-based application with *React Native* for the Regional Cancer Center in Sweden to help detect melanoma.

`Project Management` `Agile` `Consultancy` `Git Workflow` `React Native` `Sales`

Fullstack Developer / Sep 2021 - Jan 2023

Klas, s.r.o., Slovakia

Website platform UI/UX design (+Marketing Design). Creation/maintenance of an interactive RIA (Project Kukuričné Bludiská). I've been responsible for the development/maintenance of the company's website, using *Next.js*.

`Git` `HTML` `CSS` `Node.js` `Next.js` `Tailwind CSS`

`Python`

📋 SKILLS

Languages: Haskell, Python, Java, JavaScript, Go, C, C++, Bash/Shell, CSS
Tools: Haskell: QuickCheck, Python: Pandas, Flask, NumPy, Matplotlib; JavaScript: Node.js, Vue.js, Next.js, React Native; MongoDB, Postman, Shell scripting, CLI, LaTeX, Markdown, Git (GitHub/GitLab), Psql, Jupyter Notebook
Other: Open-source, Adobe After Effects, Adobe Photoshop, Figma, Affinity Photo, Graphic Design

🎓 EDUCATION

Software Engineering and Management - 2022–2025

Bachelor's degree, Gothenburg University | Chalmers, Sweden
Description: Software Engineering and Management at the department of Computer Science and Engineering.

School-leaving Examination Certificate - 2017–2022

Súkromné Bilingválne gymnázium (Private Grammar High School) Česká 10, Slovakia
Description: Major in Mathematics, Computer Science, English (C1), Slovak - Pass with distinction (A).

🖌️ OTHER PROJECTS

- **Maturity exam (national examination) 2021/2022 (Slovakia) - Objective Data Analysis** - Creation of a form related to the external part of the secondary school leaving examination, year 2021/2022, in Slovakia. Data analysis with Python3. Final result documented in a booklet.
- **COVID-19 visualised - Slovakia** - COVID-19 Projection in the Slovak republic - an interactive web-based applet made with Flask and Chart.js gathering the newest data obtained from the API in various categories (link).
- **Svenska för Utlänningar/Swedish For Foreigners (SFU)** - *"SFU"* (EN: Swedish for Foreigners, SE: Svenska för Utlänningar) is a multimedia platform which focuses on Sweden's traditions, language, and culture. Instagram (3500+ followers). Content creation (Swedish-English language-oriented); graphic design & social media management, community leading and management.

★ LICENSES & CERTIFICATIONS

- **Winner of ActInSpace2022 International Hackathon - Sweden** (ActInSpace)
- **CS50's Introduction to Computer Science** (CS50 | Harvard University)
- **Pre-University Calculus** (Technische Universiteit Delft)
- **TOEFL iBT**
- **Swedish as a Second Language** (Folkuniversitet, Göteborg)
- **The Duke of Edinburgh's International Award - Bronze level** (Slovakia)
- **International Masterclasses Particle Physics 2021** (Univerzita Mateja Bela v Banskej Bystrici)

⚽ ACTIVITIES / INTERESTS

Passionate **language learner**; extensive proficiency in English (C1); professional working proficiency in German and Swedish. Currently learning Spanish (elementary competence).

Content producer and self-taught **graphic-video designer** working as a freelancer on projects with contemporary visual elements.

Impassioned **writer** of all types of literature, in Slovak, English, and Swedish, specializing in **academic papers/articles** related to Mathematics and Computer Science.