

Michal Spano

Programmer—Aspiring Researcher

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SUMMARY

I am a passionate Software Engineer and Mathematics enthusiast from Slovakia, currently based in Sweden's Gothenburg. Currently, I study **Software Engineering** at the joint department of Computer Science and Engineering at **Chalmers and Gothenburg University**. My current interests include **Functional Programming**, Type Theory, and Topology, hence bridging the gap between Software Engineering, Computer Science, and Mathematics.



WORK

Developer / September 2024 – present

Algeno AB, Sweden

I am currently working as a developer at Algeno AB, a Swedish startup that focuses on developing AI-driven tools to optimize energy use and temperature control in homes and workplaces.

Programming Docker Python Next.js Testing

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

Education Monitor, Student Representative / Aug 2024 – present

Göta Studentkår, IT-section, Sweden

I am responsible for monitoring the quality of education at the IT-section of Gothenburg University, as well as representing the students in various decision-making bodies.

Communication Education Leadership

Teaching Assistant / Aug 2023 – Jan 2024

Gothenburg University, Sweden

As a Teaching Assistant, 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: Object-Oriented Programming, Requirements Engineering and User Experience

Teaching Pedagogy Programming Languages UX

Chairman, Head of Finance / 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, Head of Finance for 2024/2025. I spearheaded the planning of numerous 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: Python, Haskell, Java, TypeScript, Go, C/C++, Assembly, Bash/Shell, R, MATLAB

Tools: QuickCheck, Pandas, Flask, NumPy, Jupyter Notebook, Matplotlib, Node.js, Vue.js, Next.js, React Native, MongoDB, Postman, Shell scripting, CLI/Unix, L^AT_EX, Git (GitHub/GitLab), SQL, Docker, Arduino

Other: Open-source Software, Adobe After Effects, Adobe Photoshop, Figma, Affinity Photo, Graphic Design, Motion Graphics, Video Editing



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](#)).



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)**
- **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 varied types of literature, specializing in **academic papers/articles** related to Mathematics and Computer Science.