

Mahan Parham

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Introduction

- maparham40@gmail.com
- Born in 1985, Iranian, Persian, passport name: Mahmoud Parham
- Permanent resident of Austria (Daueraufenthalt-EU)
- PhD in Computer Science ([Networks and SDN](#))
- Located in Vienna, Austria
- <https://maparham.github.io>

Work and Education

- *November 2023–June 2025.* IMS Nanofabrication, **Python, Test Software Developer**, ETL pipeline, data ingest, Pytest, Polars, Numpy, Mongoddb, Influxdb, Grafana, Docker, HPC environment etc.
- *September 2022–July 2023.* Salzburg Research, **Research Developer**, distributed energy management system, **Python**, Docker, RestAPI, FastAPI, OpenAPI, Grafana, InfluxDB
- *May 2022–August 2022.* Software Developer, Parity Quantum Computing GmbH, Innsbruck, **Python**, SOLID principles, contributed to a **QC compiler prototype**, left early because of the offer from SRFG
- *March 2018–December 2022.* **PhD:** Doktoratsstudium der technischen Wissenschaften, University of Vienna, supervised by Prof. Stefan Schmid, Thesis: Algorithms for Traffic Control Challenges in Softwarized Networks ¹,
- *May 2017–February 2018.* PhD Fellow in Computer Science, Aalborg University, Denmark, Supervisor: Stefan Schmid (continued in Austria)
- *February 2014–October 2015.* **Fullstack Developer**, Doc Cirrus GmbH ², Berlin, Germany, Role: developed backend services for a distributed medical office: **Node.js, Javascript** RestAPI, MongoDB, JQuery, Socket.io,...
- *2010–2012.* MSc in Computer Science, Sharif University ³, Tehran, numerous part-time dev jobs in the meanwhile, Java, C#, Javascript etc.
- *2004–2009.* BSc in Informatics, Kharazmi University ⁴, Tehran, Iran, numerous part-time dev jobs in the meanwhile, Java, JSP, C#, Javascript etc.

Hands-on Experience

- **Coding:** Python (advanced), C++1x (intermediate), Javascript, Bash, Prompt Engineering
- **Data:** Pandas, Polars, Numpy, Plotly, Mongoddb, Influxdb, Grafana, (No)SQL, Excel
- **Frontend:** JavaScript (ES6+), jQuery, HTML5, CSS3, foundational knowledge transferable to modern frameworks like React and Next.js

¹<https://phaidra.univie.ac.at/detail/o:1424719> or google "Mahmoud Parham uni Wien" if the link is dead

²<http://doc-cirrus.com>

³<http://ce.sharif.ir>

⁴<https://eng.khu.ac.ir/en>

- **Environments:** Pycharm, IntelliJ IDEA, Webstorm, VSCode, Linux, MacOS, Docker
- **Practices:** OOD, SOLID, Design Patterns, UML, Agile, Layered Design, Microservice
- **Team Work:** Git, Gerrit, Code Review, Sphinx, Confluence, Jira, Mattermost, Slack
- **Foundation:** Algorithms, Data Structures, combinatorial optimization, Machine learning
- **Communication:** Fluent English, Intermediate Deutsch (B1), Technical Writing

Motivational

I see myself as a natural developer and problem solver with above average capabilities, strong intuition, good grasp of fundamentals, and a practical sense for code and design smell. I started programming for a living two decades ago when I was a bachelor student in Tehran while going through a tough student life. The more professional agile experience started with the Berlin job (backend Node.js) which was my first time away from home and in Europe. At some point my passion and respect for theoretical computer science inspired me to do a PhD. It was satisfying although pragmatically foolish in retrospect. Afterwards, I decided to go back to the dev industry and earn more salary and further practical experience. Passion for genuine science work doesn't pay the rent.

What I'm offering?

- strong implementation expertise and technical senses
- solid foundation in CS, mathematics, physics, and SE
- flexible adaptive mindset (shockingly rare in Europe)
- diverse technical background: from scientific to web development
- advanced English and technical writing skills
- eager to learn new tools and concepts on demand quickly
- passion for clean and accurate code, and for clean logical design

Expectations

I'd like to work with a flexible, creative, ambitious, respectful team, ideally a truly international one with diverse experience. Above all, I value a healthy goal-oriented culture. I need a job that is mentally engaging. My expected salary starts at **60k**. The exact number depends on job details, office conditions, homeoffice/remote possibility etc.