Antonia **Frey**

Profile Summary

Software Engineer with 4+ years of experience in Python, web development frameworks, and Java. With a background in Electrical Engineering, I discovered my passion for programming during my university studies and began working as a programmer while still a student, continuing in the field since graduating in December 2020.
As a team player, I thrive in collaborative environments, enjoying the opportunity to work together to solve complex challenges and achieve goals. Personally, I prefer Python over Java and I enjoy learning and teaching new technologies, automating processes, and writing well-structured and robust code to reduce complexity. Being solution-oriented yet critical, I aim to develop better solutions and improve efficiency.

Contact details

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Personal information

Citizenship: **Swiss, German**
Languages:
- **German** (C2)
- **English** (C1)
- **Spanish** (C1)
- **French** (B1)

Technologies & Tools

- **Programming Languages**
  Python, TypeScript, Java
- **Frontend**
  React, Vue, Angular, Redux, Material UI, Bootstrap, Tailwind CSS, HTML/CSS
- **Backend**
  Python Django, NodeJS, MongoDB, SQL
- **Testing**
  Java/Selenium, Postman (API Testing), Cypress / Cucumber, Jest
- **Agile Practices**
  Git, CI/CD, SCRUM, Jira, Confluence

Experience

Software Engineer · IT Consultant
Devoteam GmbH, Frankfurt, Germany · Remote February 2022 – Now

◇ Translating client requirements into technical solutions, participating in meetings to ensure alignment with stakeholder expectations, and delivering urgent fixes
◇ Development of web applications, leveraging cloud technologies, for data visualization using modern frameworks like React, Vue, and TypeScript/JavaScript.
◇ Implemented Git integration within GitLab CI/CD pipelines to optimize version control and automate deployment workflows.
◇ Test automation with Java/Selenium, Cypress, and unit testing with Jest
◇ Collaborated in an Agile Scrum environment using Git, Jira, and Confluence to manage tasks and document workflows.

Junior Python Programmer · System Analyst
ELCA Informatique SA, Granada, Spain · Switzerland Jan. 2021 – Jan. 2022

◇ Automation of business-critical processes and implementation of new functionality in the company-wide production ERP system with Python.
◇ Programming and changing VBA scripts to generate business reports.
◇ Querying databases using SQL to ensure data accuracy and integrity.
◇ Performing business analysis for new features, drafting user stories and acceptance criteria, and coordinating client meetings with stakeholders in Switzerland while collaborating within an international team comprising Spanish, German, and French-speaking colleagues.

Software Engineer (Internship)
Intel Labs, Karlsruhe, Germany Aug. 2019 – Jan. 2020

◇ Automotive software development for an open-source simulator (CARLA.org) for autonomous driving research.
◇ Creating traffic scenarios which describe traffic situations and vehicle behaviors like a lane change (with Python).
◇ Debugging, testing, and implementing unsupported Parser features.

System Engineer (Internship)
BMW M, Munich, Germany Sep. 2018 – Feb. 2019

◇ Developing a Windows desktop app with C# to automatically translate bus communication protocols from LIN to CAN and vice versa.
◇ Antenna measurements during test drives in disguised prototype cars.
◇ Organization of the annual tire change for vehicle fleets in coordination with vehicle bookings and mechanics as well as measurement and technical documentation of wheelbase parameters.

Education

M. Sc. Electrical Engineering and Information Technology
Karlsruhe Institute of Technology (KIT)
2018 – 2020

B. Sc. Electrical Engineering and Information Technology
Karlsruhe Institute of Technology (KIT)
2013 – 2018

Certifications

◇ 2025 ISTQB Certified Tester Foundation Level, *atsqa.org*
◇ 2024 Professional Python Programmer Level 1, *pythoninstitute.org*
◇ 2023 AWS Certified Cloud Practitioner, *Amazon*
◇ 2023 Google Cloud Engineer, *Google*
◇ 2023 Google Cloud Digital Leader, *Google*
◇ 2022 Professional Scrum Master I, *scrum.org*