

Pedro Müller

EDUCATION

- **Technical University Munich (TUM)** Munich, Germany
Master of Science in Electrical Engineering and Computer Science 2018 – 2021
 - Specialization: Power Engineering and Renewable Energies
 - Exchange Program: University of Oulu, Finland (2019)
- **FEUP - Faculty of Engineering, University of Porto** Porto, Portugal
Bachelor of Science in Electrical Engineering and Computer Science 2015 – 2018
 - Program: Electrical and Computer Science with focus on Power Engineering
- **Deutsche Schule Porto (German School of Porto)** Porto, Portugal
Abitur 2003 – 2015

EXPERIENCE

- **Ostrom** Berlin, Germany
Software Engineer Feb 2023 – Present
 - Energy Management Platform: Developed and maintained a scalable energy management platform serving over 70,000 clients, implementing real-time monitoring and control systems for distributed energy resources.
 - Charging Optimization: Designed and implemented advanced charging algorithms that optimize energy consumption patterns, reducing costs through intelligent load management and time-of-use optimization.
 - Virtual Power Plant: Contributed to the development of a virtual power plant system that successfully participated in energy markets, generating revenue through optimized vehicle charging and energy trading strategies.
- **pragmatic industries GmbH** Germany
Software Engineer Nov 2021 – Feb 2023
 - Backend Development: Led backend functionality development and translated user requirements into actionable tasks.
 - Quality Assurance: Conducted extensive unit tests and resolved issues. Implemented automated testing pipelines.
 - Client Relations: Facilitated client communication and maintained relationships. Created demo environments for solution showcasing.
 - Regulatory Coordination: Coordinated and moderated regulatory meetings with clients.
- **Siemens Energy** Munich, Germany
Research Assistant Jun 2021 – Sep 2021
 - Techno-economic Analysis: Conducted analysis of hydrogen transport options using linear optimization.
 - Research: Managed data research for regional projections of future hydrogen demands.
 - Validation: Validated German gas network model and completed Master's thesis on hydrogen transport infrastructure options.

SKILLS

- **Languages:** TypeScript, JavaScript, Python
- **Frameworks:** Django, NestJS, React Native, Flask
- **Cloud:** AWS (Certified Cloud Architect)

LANGUAGES

- **Native/Bilingual:** German, Portuguese, English
- **Limited Working:** Spanish, French