

Pedro Müller

EXPERIENCE

- **Ostrom** Berlin, Germany
Software Engineer *Feb 2023 – Present*
 - Energy Management Platform: Developed and maintained a scalable energy management platform serving thousands of 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.
- **Siemens Energy** Munich, Germany
Research Assistant *Oct 2020 – 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.

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

TECHNICAL SKILLS

- **Programming Languages:** TypeScript, JavaScript, Python, SQL
- **Backend Development:** NestJS, Django, Flask, Node.js, REST APIs
- **Cloud & Infrastructure:** AWS (Certified Cloud Architect), Terraform, Docker, CI/CD
- **Tools & Methodologies:** Git, Agile Development, Unit Testing

LANGUAGES

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