

PEDRO MÜLLER

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EXPERIENCE

Ostrom

Software Engineer

Berlin, Germany

Feb 2023 – Present

- Architected and developed a scalable energy management platform serving thousands of clients with real-time monitoring and control systems for distributed energy resources
- Designed and implemented advanced EV charging algorithms optimizing energy consumption patterns, reducing operational costs through intelligent load management and time-of-use optimization
- Built virtual power plant system enabling energy market participation, generating revenue through optimized vehicle charging and energy trading strategies

pragmatic industries GmbH

Software Engineer

Germany

Nov 2021 – Feb 2023

- Led backend feature development, translating user requirements into technical specifications and delivering scalable solutions
- Implemented comprehensive unit testing and automated CI/CD pipelines, improving code quality and reducing deployment time
- Managed client relationships and created demo environments, facilitating solution demonstrations and stakeholder communication

Siemens Energy

Research Assistant

Munich, Germany

Oct 2020 – Sep 2021

- Conducted techno-economic analysis of hydrogen transport infrastructure using linear optimization models and mathematical programming
- Researched and analyzed regional hydrogen demand projections, contributing to strategic planning for future energy infrastructure
- Validated German gas network models and completed Master's thesis on hydrogen transport infrastructure optimization

EDUCATION

Technical University Munich (TUM)

Master of Science in Electrical Engineering and Computer Science

Munich, Germany

2018 – 2021

University of Porto (FEUP)

Bachelor of Science in Electrical Engineering and Computer Science

Porto, Portugal

2015 – 2018

PRESENTATIONS

Sword AI Summit: Building Real AI Workflows for Software Engineers

Nov 15, 2025

TECHNICAL SKILLS

Languages & Frameworks: JavaScript, TypeScript, Node.js, Nest.js, Python, Django

DevOps & Cloud: AWS (Certified Cloud Architect), CI/CD, GitHub Actions, Terraform, Docker

Tools: Sentry, Jira, Git, Jest

Methodologies: Microservices, Agile, TDD, System Design

LANGUAGES

German, Portuguese, English (Native/Bilingual); Spanish, French (Limited Working)