Jonas Sievers

Contact

Address
Valentinstraße 1
76189 Karlsruhe
Germany

Phone
+49 1573 2470 449

E-Mail
jonas.sievers@kit.edu

LinkedIn
www.linkedin.com/in/jonas-sievers-a77000196

GitHub
https://github.com/JonasSievers

Website
https://jonassievers.github.io/

Skills

Languages
German (native), English (fluent), Spanish (fluent), French (basic)

Programming
Python (advanced), TensorFlow (advanced), Java (good)

Honors and Social commitment

"Netze BW" Scholarship
Sponsorship for outstanding master's students within the energy industry (€ 3,000 + Mentoring)

Head of Department "Education for Refugees" association
Helping refugees to continue their education and enter the labor market
- Awards: Google Impact Challenge, Heinz Kappes Prize

I am a **Ph.D. student** at the Karlsruhe Institute of Technology, focusing on machine learning applications in energy systems. In my research, I explore various machine learning techniques, including **federated learning**, **reinforcement learning**, and **time series forecasting**, to improve industrial energy management systems.

Education

04.2022 - Today	**Ph.D. student** at Karlsruhe Institute of Technology (KIT), Institute for Data Processing and Electronics (IPE) - **Research Focus**: Machine Learning in Energy System - **Last publication**: Secure short-term load forecasting for smart grids with transformer-based federated learning - **Current research**: Advancing Accuracy in Load Forecasting using Mixture-of-Experts and Federated Learning
11.2019 - 04.2022	**M.Sc. Industrial Engineering, Karlsruhe Institute of Technology (Grade: 1,6)** - Focus: Machine Learning, Data Science, Energy systems
10.2015 - 11.2019	**B.SC. Industrial Engineering, Karlsruhe Institute of Technology (Grade: 2,4)** - Focus: Energy Informatics - **Study aborad (1 year):** Universidade da Coruna (Spain)
08.2014 - 10.2015	**Voluntary social year (Peru):** Teaching English
08.2006 - 08.2014	**General university entrance qualification (Grade: 1,7)**

Experience

04.2022 - Today	**Co-founder and shareholder, "Chargetic GmbH"** - Development of smart charging and load management software for apartment buildings - Scholarship German Federal Environmental Foundation: € 125,000 - Learn more: https://chargetic.de/
11.2019 - 04.2022	**Assistant to the head of the gas department, working student at "EnBW AG"** - Corporate gas strategy, investment management, controlling, mergers and acquisitions
10.2015 - 11.2019	**Research assistant in the field smart grids, Karlsruhe Institute of Technology** - LAMP research project: Local and decentralized energy market with 20 households, data mining and analysis of load profiles, energy market design and study of participants' acceptance of the pricing mechanisms
09.2014 - 09.2015	**Software developer, internship "Krumedia GmbH"** - Development of a scalable and IOT-enabled energy management system, programming of a data import interface