

Kevin Kreutz

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Computer scientist with a passion for distributed systems, algorithms, and declarative optimization. Hands-on experience with software development, multiple database management systems, and applying mathematical optimization models to real-world problems.

Education

Technical University of Berlin, M.Sc. in Computer Science Sept 2020 – Nov 2023

- Grade: 1.4
- **Relevant Coursework:** Database Technologies, Cloud Computing, Distributed Systems Project, Web Technologies Project, Algorithmic Game theory, Computer Networking
- **Master Thesis:** (Technical University of Berlin, Politecnico di Milano)
"Reducing the Carbon Footprint of Microservice-Based Cloud Applications by Periodically Scaling their Energy Demand" (1st Examiner: Prof. Dr. habil. Odej Kao; 2nd Examiner: Prof. Dr. rer. nat. Volker Markl)

Free University of Berlin, B.Sc. in Computer Science Sept 2016 – Aug 2020

- **Relevant Coursework:** Advanced Algorithms, Randomized Algorithms, Database Project, Data Visualization

Experience

Software Engineer/Analyst, enervis energy advisors GmbH Dec 2023 -...

- Led the end-to-end development of a web tool with 100+ users to model the ROI of battery energy storage systems (BESS). With the help of mathematical optimization models using solvers in the back end, this enabled clients to calculate projected yearly revenues for specific BESS configurations in a matter of minutes.
- Modernized and unified the handling of data for cross-functional teams, by developing and maintaining web-scrappers and data-mining scripts, which feed results into relational databases.

Software Developer, plus b GmbH May 2020 - Oct 2021

- Aggregated and normalized data from 10+ job-listing platforms into a unified portal for Berlin (talent.berlin), which simplifies the job search for new arrivals in Berlin.
- Developed and maintained web applications for various public organizations.

Publications

Adaptive green cloud applications: Balancing emissions, revenue, and user experience through approximate computing Oct 2025

Monica Vitali, Philipp Wiesner, Kevin Kreutz, Roberto Gandola
Future Generation Computer Systems (Volume 176, March 2026)

Carbon-Aware Microservice Deployment for Optimal User Experience on a Budget Dec 2024

Kevin Kreutz, Philipp Wiesner, Monica Vitali
1st International Workshop on Low Carbon Computing (LOCO 2024)

SyncMesh: Improving Data Locality for Function-as-a-Service in Meshed Edge Networks April 2022

Daniel Habenicht, Kevin Kreutz, Sören Becker et al.
5th International Workshop on Edge Systems, Analytics and Networking (EdgeSys 2022)
10.1145/3517206.3526275

Skills

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- **Programming Languages:** Python, Javascript, PHP, Golang, SQL, Bash
 - **Technologies:** PostgreSQL, MongoDB, Terraform, Git, React, Next.js, Node.js, Flask
 - **Languages:** German (native), English (C1)