

# Karl Lorey

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## ABOUT

Technologist with an entrepreneurial and academical background, leveraging machine learning, scraping, and web development to build data-driven platforms.

LinkedIn:// **Karl Lorey**  
Github:// **lorey**  
Twitter:// **@karllorey**

## EDUCATION

### KIT

#### MSC IN COMPUTER SCIENCE

Nov 2017 | Karlsruhe, Germany

Information Systems,  
Software Engineering, Entrepreneurship  
A+, with distinction

### UNIVERSITY OF WÜRZBURG

#### BSC IN COMPUTER SCIENCE

Sep 2013 | Würzburg, Germany

Information Systems, Economics  
A+, with distinction

## SKILLS

### LANGUAGES

Experienced in Python, SQL  
Intermediate in Java, PHP, HTML/CSS,  
Javascript, RegEx  
Familiar with LaTeX, YAML, Bash, XSLT,  
Typescript

### TECHNOLOGIES

scikit-learn • spaCy • Pandas • Kafka  
• Spark • Scrapy • Selenium • Django  
• Laravel • Docker • Terraform • Ansible  
• GNU Make • AWS • GCP • Postgres  
• PostGIS • SQLite • MySQL/MariaDB  
• MongoDB • elasticsearch • Redis • GIT  
• Gitlab • Unix • Debian • Apache • Nginx  
• KNIME • SPSS • Grafana • LDAP  
• i3wm • UML

### TOPICS

Leadership, Nearshoring, Offshoring,  
SCRUM, Venture Capital,  
Entrepreneurship, Automation,  
Software Engineering, Clean Code,  
Test-driven development,  
Web Development, Machine Learning,  
Crawling/Scraping, Geospatial Data, Social  
Network Analysis

## EXPERIENCE

### PARTSCLOUD | (INTERIM) CTO

Sep 2021 - today | Stuttgart, Germany

- building a platform to supercharge OEMs' spare parts fulfillment

### HAYS | SENIOR SPECIALIST ML, LEADING CRM/CDM/GDPR

Aug 2020 - Apr 2021 | Stuttgart, Germany

- leading customer data and relationship management as well as GDPR for a German-Chinese car manufacturer

### FIRST MOMENTUM | FOUNDING PARTNER

Jul 2017 - Apr 2020 | Karlsruhe, Germany

- founding and leading a tech-focused early-stage venture capital fund with a volume of €5M
- establishing a technological competitive advantage by implementing scrapers and machine learning to find investment opportunities

### GERMAN IT JOBS | Co-FOUNDER

Jul 2016 - Mar 2017 | Stuttgart, Germany

- built a platform for foreign IT professional willing to relocate to Germany
- automated the recruiting process and applied Machine Learning to implement a scalable screening process

## RESEARCH

### CHAIR PROF. BÖHM, IPD, KIT | RESEARCH ASSISTANT

May 2015 - Jun 2016 | Karlsruhe Institute of Technology, Germany

Created a Secure Storage mechanism that resides inside the Database Abstraction Layer. Presented results at CAiSE in Ljubljana, Slovenia. [1]

### KIT: IMK-ASF | RESEARCH ASSISTANT

Nov 2014 - Apr 2015 | Karlsruhe, Germany

Conducted research on flight data to find influencing factors on airplane vibrations via Data Mining techniques using SPSS and KNIME.

### CHAIR PROF. TRAN-GIA | RESEARCH ASSISTANT

Mar 2013 - Jun 2014 | University of Würzburg, Germany

Planned, created, and implemented a framework to measure subjective influence in online social networks. [2], [3]

## PUBLICATIONS

- [1] K. Lorey, E. Buchmann, and K. Böhm. TEAL: transparent encryption for the database abstraction layer. In *Proceedings of the CAiSE'16 Forum, at the 28th International Conference on Advanced Information Systems Engineering (CAiSE 2016), Ljubljana, Slovenia, June 13-17, 2016*, pages 145-152, 2016.
- [2] M. Seufert, V. Burger, K. Lorey, A. Seith, F. Loh, and P. Tran-Gia. Assessment of subjective influence and trust with an online social network game. *Computers in Human Behavior*, 64:233-246, 2016.
- [3] M. Seufert, K. Lorey, M. Hirth, and T. Hoßfeld. Gamification framework for personalized surveys on relationships in online social networks. In *Proceedings of the 2013 IEEE/ACM 6th International Conference on Utility and Cloud Computing*, pages 482-487. IEEE Computer Society, 2013.