

# Karl Lorey

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## ABOUT

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

### GYMNASIUM WEIKERSHEIM

#### ABITUR

Jun 2009 | Weikersheim, Germany  
with distinction

## SKILLS

### PROGRAMMING

Experienced: Python • SQL • PHP

Intermediate: Java • HTML/CSS •

JavaScript

Familiar: LaTeX • R • Bash • XSLT

### TECHNOLOGIES

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

### TOPICS

Academic Research • Venture Capital •  
Entrepreneurship • Automation •  
Software Engineering • Clean Code •  
Web Development • Machine Learning •  
Crawling/Scraping • Geospatial Data •  
Social Network Analysis

## EXPERIENCE

### FIRST MOMENTUM | FOUNDING PARTNER

Jul 2017 - Present | 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

### PIONIERGARAGE | CHAIRMAN

Jul 2015 - Feb 2016 | Karlsruhe, Germany

- was elected chairman of Germany's biggest student club for entrepreneurship
- lead a board of six members and the club with around 100 members
- hosted events, managed public relations as well as contact with alumni

### 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

## 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]

### 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]

## AWARDS

2016	award	Award for Student Commitment (KIT)
2016	3 <sup>rd</sup>	Hack.Stuttgart hackathon by Daimler
2016	honoring	Honoring by KIT's president (Ehrenabend des Präsidenten)
2016	3 <sup>rd</sup>	3 Day Startup competition at WHU
2015	1 <sup>st</sup>	codeFEST <sup>8</sup> hackathon by Volkswagen (DACH)

## 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.