

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

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 - 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

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 rd	Hack.Stuttgart hackathon by Daimler
2016	honoring	Honoring by KIT's president (Ehrenabend des Präsidenten)
2016	3 rd	3 Day Startup competition at WHU
2015	1 st	codeFEST ⁸ 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.