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:
Python • SQL • PHP
Intermediate:
Java • HCL • HTML/CSS • JavaScript
Familiar:
LaTeX • YAML • R • Bash • XSLT

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

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

EXPERIENCE

HAYS | Senior Specialist Machine Learning, Lead 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 Assisstant

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 Assisstant

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]

AWARDS

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