Side Li
Curriculum Vitae

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🖰 *liside.github.io*

Education

2019–Present	**University of California, San Diego**, Doctor of Philosophy in Computer Science.
2014–2018	**University of California, San Diego**, *Earl Warren College*, Bachelor of Science in Computer Science (highest distinction) Bachelor of Arts in Economics.

Research Experience

Sep.,2019 – Present & Sep.,2017 – Aug.,2018	**Arun's Data Analytics (ADA) Lab at UCSD**, *Research Assistant.* Advisor: Prof. Arun Kumar - *Morpheus*: a factorized learning framework that accelerates machine learning training on relational data through linear algebra. - *SpeakQL*: a speech-driven multi-modal querying system.
Dec.,2015– Jan.,2017	**Spatial Information Systems Lab at SDSC**, *Research Programmer.* Advisor: Dr. Ilya Zaslavsky - *SuAVE*: a collaborative research data management and analysis platform

Industry Experience

Jul.,2018 – Apr.,2019	**A9.com (an Amazon company)**, *Software Development Engineer.* Team: Amazon Ad Exchange Platform, Amazon Owned and Operated Ads - Worked on ads auction and HTTP client optimization.
Jun.,2017 – Sep.,2017	**Amazon**, *Software Development Engineer Intern.* Team: Digital Personalization (P13N) - Addressed an ebook series recommendations problem.
Dec.,2016 – Jun.,2017	**Ai Master, Inc**, *Software Engineer/Cofounder.* Team: Ai-Master.com (an artificial intelligence service platform) - Implemented a robust and easy scalable cluster for serverless ML execution.
Jun.,2016 – Sep.,2016	**Cheetah Mobile, Inc**, *Platfrom Testing Engineer Intern.* Team: Live.Me (Social live streaming app for teenagers)

Publications

Full Paper

- Vraj Shah, **Side Li**, Arun Kumar, and Lawrance Saul. SpeakQL: Towards Speech-driven Multimodal Querying of Structured Data, *Under submission*
- **Side Li**, Lingjiao Chen, and Arun Kumar. Enabling and Optimizing Non-linear Feature Interactions in Factorized Linear Algebra, *SIGMOD 2019*

Demo & Short Paper

- Vraj Shah, **Side Li**, Kevin Yang, Arun Kumar, and Lawrance Saul. Demonstration of SpeakQL: Speech-driven Multimodal Querying of Structured Data, *SIGMOD 2019*
- Iyla Zaslavsky, **Side Li**, Stephan Lamont, David Valentine, and Thomas Whitenack. Novel Gateway for Visual Exploratory Analysis and Sharing of Survey Data, *The 11th Gateway Computing Environments Conference (2016)*

Awards & Honors

- Halıcıoğlu Data Science Institute - Graduate Prize Fellowship, 2019-2023
- Jacobs School of Engineering Fellowship, 2019-2021
- Charles Lee Powell Fellowship, 2019-2020
- Department Honors in Computer Science with Highest Distinction, 2018

Technical skills

Languages	C, C++, Go, Java, JavaScript, Python, SQL, Shell
Tools and Frameworks	Docker, Express, Flask (Python), Kubernetes, MongoDB, NodeJS, Redis, Spring (Java), VueJS, Webpack
Big Data	Hive, HDFS, Spark
Machine Learning	NumPy, PyTorch, SciKit Learn, Tensorflow

References

- Arun Kumar
  Assistant Professor, University of Califronia, San Diego
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- Ilya Zaslavsky
  Director, Spatial Information Systems Laboratory, San Diego Supercomputer Center
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