

Side Li

Curriculum Vitae

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

Industry Experience

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

Teaching Experience

- Fall 2017 **CSE 101: Design and Analysis of Algorithms, UCSD**,
with Prof. Russell Impagliazzo and Miles Jones,
Undergraduate Teaching Assistant.
- Fall 2016 **CSE 101: Design and Analysis of Algorithms, UCSD**,
with Prof. Miles Jones,
Undergraduate Teaching Assistant.

Spring 2016 **CSE 21: Mathematics for Algorithms and Systems, UCSD**,
with Prof. Russell Impagliazzo and Miles Jones,
Undergraduate Teaching Assistant.

Publications

Full Paper

2019 *SpeakQL: Towards Speech-driven Multimodal Querying of Structured Data*
Vraj Shah, **Side Li**, Arun Kumar and Lawrance Saul
Under submission

2019 *Enabling and Optimizing Non-linear Feature Interactions in Linear Algebra Over Normalized Data*
Side Li, Lingjiao Chen, and Arun Kumar
ACM SIGMOD 2019 (To appear)

Demo & Short Paper

2019 *Demonstration of SpeakQL: Speech-driven Multimodal Querying of Structured Data*
Vraj Shah, **Side Li**, Kevin Yang, Arun Kumar and Lawrance Saul
ACM SIGMOD 2019 (To appear)

2016 *Novel Gateway for Visual Exploratory Analysis and Sharing of Survey Data*
Ilya Zaslavsky, **Side Li**, Stephan Lamont, David Valentine, and Thomas Whitenack
The 11th Gateway Computing Environments Conference

Talks

2018 *A Case Study of Learning Over Joins with Python*
Presentation at UCSD Undergraduate Research Conference

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