David Lin

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Education

May, 2019	**University of California, Berkeley**	
Aug, 2015	**Major**	B.S. Electrical Engineering and Computer Sciences (EECS)
	Selected	AI, Algorithms, Data Science, Database Systems, Machine Learning,
	Coursework	Natural Language Processing, Optimization Models, OS, Probability

Experience

Aug, 2018 / May, 2018 — **Software Engineering Intern, Big Data** — Amazon, Seattle, WA
- Reduce friction in Alexa-user interactions with a novel property graph representation
- Build ETL for batch processing on 500+ GB data, optimize performance for Spark DAG
- Develop CLI program with Apache Spark backend using SQL/DataFrame and GraphX

May, 2018 / Sept, 2017 — **Researcher, Computer Vision/Mapping** — Berkeley DeepDrive, UC Berkeley, CA
- Develop live simultaneous localization and mapping for autonomous driving (see proj)

April, 2018 / June, 2017 — **Online Manager** — The Daily Californian, Berkeley, CA
- Manage website redesign team and online/mobile dept serving 10,000+ daily uniques
- Direct data analytics research to improve online ad revenue and user engagement
- Extensive collaboration with executive editors, business, and sales managers

Aug, 2017 / May, 2017 — **Software Engineering Intern, Backend/Data** — Quantcast, San Francisco, CA
- Automate weekly publisher site status service to improve accuracy from 60% to 100%
- Use cloud infra (AWS, Terraform), data access layer (SQL, JDBC, HikariCP), REST APIs
- MapReduce on TB of cookie metadata to calculate campaign reporting start/end dates

May, 2017 / Jan, 2016 — **System Admin and Researcher, Robotics** — AUTOLAB, UC Berkeley, CA
- Research under Prof Ken Goldberg for autonomous driving and explainable AI
- On-call for two Linux servers (20+ sites/databases) for lab of 30+ grad/ug students

Aug, 2015 / July, 2015 — **Data Analyst Intern** — GT Nexus (Infor), Hong Kong
- Implement intranet Google Analytics tracking, A/B tests, customize adoption reports

Projects

May, 2018 / Sept, 2017 — **Lidar 3D Reconstruction** — Computer Vision/Mapping Research
- Reconstruct a 3D model of the dynamic scene by applying ICP point cloud registration
- Use Lidar point cloud data for depth/surface normal maps for lidar-camera calibration

Dec, 2017 / Aug, 2017 — **Natural Language Processing** — Machine Learning
- Build convolutional neural network for text classification, maximum entropy Markov model for POS tagging, and machine learning models for coreference resolution

Skills

Languages	Java, Python, SQL, C, Scheme, PHP, Ruby/Rails, JavaScript, HTML, CSS, LaTex
Software	Apache Hadoop/Spark, AWS (EB, SQS, SNS, RDS), Python Libraries (NumPy, SciPy, pandas, scikit-learn, scikit-image, NLTK, Tensorflow), Jupyter Notebook