

# David Lin

(732) 939-8643 | [lin.david@berkeley.edu](mailto:lin.david@berkeley.edu) | Berkeley, CA  
<https://www.linkedin.com/in/davidmlin> | <https://github.com/lin-david>

## Education

---

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

## Experience

---

Aug, 2018	<b>Software Development Engineer Intern, Data</b>	<a href="#">Amazon</a> , Seattle, WA
May, 2018	<ul style="list-style-type: none"><li>• Reduce friction in Alexa-user interactions with a novel property graph representation</li><li>• Build ETL for batch processing on 500+ GB data, optimize performance for Spark DAG</li><li>• Develop CLI program with Apache Spark backend using SQL/DataFrame and GraphX</li></ul>	
May, 2018	<b>Researcher, Computer Vision/Mapping</b>	<a href="#">Berkeley DeepDrive</a> , UC Berkeley, CA
Sept, 2017	<ul style="list-style-type: none"><li>• Develop live simultaneous localization and mapping for autonomous driving (see proj)</li></ul>	
April, 2018	<b>Online Manager</b>	<a href="#">The Daily Californian</a> , Berkeley, CA
June, 2017	<ul style="list-style-type: none"><li>• Manage website redesign team and online/mobile dept serving 10,000+ daily uniques</li><li>• Direct data analytics research to improve online ad revenue and user engagement</li><li>• Extensive collaboration with executive editors, business, and sales managers</li></ul>	
Aug, 2017	<b>Software Engineer Intern, Backend/Data</b>	<a href="#">Quantcast</a> , San Francisco, CA
May, 2017	<ul style="list-style-type: none"><li>• Automate weekly publisher site status service to improve accuracy from 60% to 100%</li><li>• Use cloud infra (AWS, Terraform), data access layer (SQL, JDBC, HikariCP), REST APIs</li><li>• MapReduce on TB of cookie metadata to calculate campaign reporting start/end dates</li></ul>	
May, 2017	<b>System Admin and Researcher, Robotics</b>	<a href="#">AUTOLAB</a> , UC Berkeley, CA
Jan, 2016	<ul style="list-style-type: none"><li>• Research under Prof Ken Goldberg for autonomous driving and explainable AI</li><li>• On-call for two Linux servers (20+ sites/databases) for lab of 30+ grad/ug students</li></ul>	
Aug, 2015	<b>Data Analyst Intern</b>	<a href="#">GT Nexus</a> (Infor), Hong Kong
July, 2015	<ul style="list-style-type: none"><li>• Implement intranet Google Analytics tracking, A/B tests, customize adoption reports</li></ul>	

## Projects

---

May, 2018	<b>Lidar 3D Reconstruction</b>	Computer Vision/Mapping Research
Sept, 2017	<ul style="list-style-type: none"><li>• Reconstruct a 3D model of the dynamic scene by applying ICP point cloud registration</li><li>• Use Lidar point cloud data for depth/surface normal maps for lidar-camera calibration</li></ul>	
Dec, 2017	<b>Natural Language Processing</b>	Machine Learning
Aug, 2017	<ul style="list-style-type: none"><li>• Build convolutional neural network for text classification, maximum entropy Markov model for POS tagging, and machine learning models for coreference resolution</li></ul>	

## Skills

---

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