

# David Lin

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## Education

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<b>University of California, Berkeley</b>	Aug, 2015 - May, 2019
Major      B.S. Electrical Engineering and Computer Sciences (EECS)	Junior
<b>Holmdel High School, NJ</b>	GPA: 4.7/4.0      Sept, 2011 - June, 2015

## Skills

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**Languages**    Java, Python, SQL, C, Scheme, PHP, Ruby/Rails, JavaScript, HTML, CSS, LaTeX  
**Skills**        AWS (EB, SQS, SNS, RDS), Databases, MapReduce, NumPy, Pandas, Machine Learning  
**Sel. Courses** Artificial Intelligence (A-), Applied Data Science (IP), Natural Language Processing (IP)

## Work Experience

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**Software Engineer Intern, Backend/Data** – [Quantcast](#), San Francisco      May, 2017 - Aug, 2017

- Automate weekly service to find 1000+ publisher site statuses with 100% accuracy (up from 60%)
- Uses cloud infrastructure (Terraform, AWS), data access layer (HikariCP, SQL), REST APIs (Spark)
- MapReduce jobs on terabytes of cookie metadata to determine campaign reporting start/end dates

**Undergraduate Researcher** – [Berkeley DeepDrive](#), UC Berkeley      Sept, 2017 - Present

- Develop an autonomous driving system with industry sponsors, faculty, and researchers (see proj)

**Online Manager** – [The Daily Californian](#), Berkeley      July, 2017 - Present

- Manage newspaper's online/mobile dept serving thousands daily and website redesign dev team

**Researcher and System Administrator** – [AUTOLAB](#), UC Berkeley      Jan, 2016 - May, 2017

- Research and software dev under Prof Ken Goldberg for autonomous driving and explainable AI
- Maintenance/on-call for two Linux servers (20+ sites/databases) for lab of 30+ grad/ug students

**Data Analyst Intern** – [GT Nexus](#) (acquired by Infor), Hong Kong      July, 2015 - August, 2015

- Implement intranet Google Analytics tracking, perform A/B tests, and customize adoption reports

## Projects

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**Dynamic Object 3D Reconstruction** – Computer Vision, Research      Sept, 2017 - Present

- Reconstruct a 3D model of the dynamic scene from autonomous vehicle's lidar point cloud data
- Understand the 3D position of other vehicles and pedestrians while the vehicle is driving

**First Order Driving Simulator** – PyGame Graphics, Research      Oct, 2016 - May, 2017

- Open-source 2D driving simulator on a customizable track with multiple terrains and friction levels
- OpenAI Gym compatibility to analyze performance of reinforcement and deep learning algorithms

**EchoBot** – Automation Assistant, Research      Aug, 2016 - Nov, 2016

- Interfaces Amazon Echo to the ABB YuMi industrial robot to facilitate human-robot data collection
- Converts speech to text and provides continuous speech explanations to the user during operation