

David Lin

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Education

University of California, Berkeley Aug, 2015 - May, 2019
Major B.S. Electrical Engineering and Computer Sciences (EECS) Junior
Selected Coursework Algorithms, Artificial Intelligence, Data Science, Database Systems, Machine Learning, Natural Language Processing, Operating Systems, Probability and Random Processes
Holmdel High School, NJ GPA: 4.0/4.0 Sept, 2011 - June, 2015

Experience

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

Researcher, Computer Vision/Mapping – [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

System Admin and Researcher, Robotics – [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

Lidar 3D Reconstruction – Computer Vision, Research Sept, 2017 - Present

- Reconstruct a 3D model of the dynamic scene by implementing point cloud registration with ICP
- Use Lidar point cloud data to create depth and surface normal maps for lidar/camera calibration

Natural Language Processing – Machine Learning Aug, 2017 - Dec, 2017

- Construct convolutional neural network for text classification, maximum entropy markov model for part-of-speech tagging, and machine learning models for coreference resolution

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

Skills

Languages Java, Python, SQL, C, Scheme, PHP, Ruby/Rails, JavaScript, HTML, CSS, LaTeX
Technologies AWS (EB, SQS, SNS, RDS), MapReduce (Hadoop), NumPy, Pandas, Jupyter Notebook