David Lin

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https://www.linkedin.com/in/davidmlin | https://github.com/lin-david

Education

University of California, Berkeley Aug, 2015 - May, 2019
Major B.S. Electrical Engineering and Computer Sciences (EECS) Junior

Holmdel High School, NJ GPA: 4.7/4.0 Sept, 2011 - June, 2015

Skills

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

Work 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

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 AIn
- 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

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 test and provides continuous speech explanations to the user during operation