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: 4.0/4.0 Sept, 2011 - June, 2015

Skills

Languages Java, Python, SQL, C, Scheme, PHP, Ruby/Rails, JavaScript, HTML, CSS, LaTex
Technologies AWS (EB, SQS, SNS, RDS), MapReduce (Hadoop), NumPy, Pandas, REST APIs (Spark)
Rel. Courses Algorithms, Artificial Intelligence, Data Science, Database Systems, Machine Learning, Natural Language Processing, Operating Systems, Probability and Random Processes

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

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

Dynamic Object 3D Reconstruction – Computer Vision, Research Sept, 2017 - Present
- Reconstruct a 3D model of the dynamic scene by implementing point cloud registration with ICP
- Use Velodyne Lidar point cloud data to create depth and surface normal maps for plane detection

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 model (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 test and provides continuous speech explanations to the user during operation