David Lin

(732) 939-8643 | lin.david@berkeley.edu | Berkeley, CA
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)

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

Skills

Languages   Python, Java, C, SQL, Scheme, PHP, Ruby/Rails, JavaScript, HTML, CSS, LaTex
Skills   AWS (EB, SQS, SNS, RDS), REST APIs, MapReduce, D3.js, NumPy, TensorFlow, NLTK
Data Courses Database Systems, Natural Language Processing, Probability/Stats, Machine Learning

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

Tech Director/Managing Editor – The Daily Californian, Berkeley   July, 2017 - Present
- Manage newspaper's online/mobile dept serving thousands daily and website redesign dev team

System Administrator and Researcher – AUTOLAB, UC Berkeley   Jan, 2016 - May, 2017
- Maintenance/on-call for two Linux servers (20+ sites/databases) for lab of 30+ grad/ug students
- Research and software dev with Chair of IEOR on ML for autonomous driving and explainable AI

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

First Order Driving Simulator – PyGame/OpenAI Gym, 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

Financial Trends – Data Analysis Web Application, Cal Hacks   Nov, 2016 - Dec, 2016
- Process on-demand NASDAQ stock data and Google Search Trends query data over a data range
- Uses D3.js to display correlation between search social trends and financial markets over time

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

Publications

Investigating the Application of Cellulose in Biodegradable Flame Retardant Polymer Blends –
Garcia Materials Research Science, Stony Brook University   June, 2014 - March, 2015