

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
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)
Sel. 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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Develop an autonomous driving system with industry sponsors, faculty, and researchers (see proj)	
Online Manager – The Daily Californian , Berkeley	July, 2017 - Present
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Research and software dev under Prof Ken Goldberg for autonomous driving and explainable AIMaintenance/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
<ul style="list-style-type: none">Implement intranet Google Analytics tracking, perform A/B tests, and customize adoption reports	

Projects

Dynamic Object 3D Reconstruction – Computer Vision, Research	Sept, 2017 - Present
<ul style="list-style-type: none">Reconstruct a 3D model of the dynamic scene by implementing point cloud registration with ICPUse Velodyne Lidar point cloud data to create depth and surface normal maps for plane detection	
First Order Driving Simulator – PyGame Graphics, Research	Oct, 2016 - May, 2017
<ul style="list-style-type: none">Open-source 2D driving simulator on a customizable track with multiple terrains and friction levelsOpenAI Gym compatibility to analyze performance of reinforcement and deep learning algorithms	
EchoBot – Automation Assistant, Research	Aug, 2016 - Nov, 2016
<ul style="list-style-type: none">Interfaces Amazon Echo to the ABB YuMi industrial robot to facilitate human-robot data collectionConverts speech to text and provides continuous speech explanations to the user during operation	