

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: 4.7/4.0 Sept, 2011 - June, 2015

Skills

Languages	Java, Python, SQL, C, Scheme, PHP, Ruby/Rails, JavaScript, HTML, CSS, LaTeX
Skills	Databases, AWS (EB, SQS, SNS, RDS), REST APIs, MapReduce, NumPy, Scikit-learn
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
<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	
Undergraduate Researcher – Berkeley DeepDrive , UC Berkeley	Sept, 2017 - Present
<ul style="list-style-type: none">Develop a fully autonomous driving system with industry sponsors, faculty, and researchers	
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	
Researcher and System Administrator – 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 from autonomous vehicle's lidar point cloud dataUnderstand the 3D position of other vehicles and pedestrians while the vehicle is driving	
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	

Publications

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