

DAVID ZHAO

SOFTWARE ENGINEER

Looking to challenge the status quo with impactful and innovative software

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111 Shamrock Rd, Charlottesville, VA 22903

LEARN	University of Virginia , Charlottesville, VA	Aug 2016–May 2019
	B.S., Computer Science (GPA 4.0) and Statistics (GPA 4.0) double major, Overall GPA–3.9	
	Relevant Coursework: Text Mining, Machine Learning, Computer Vision, Algorithms, Computer Architecture, Theory of Computation, Regression Analysis, Math Statistics, Linear Algebra, Probability, Discrete Math, Multivariable Calculus	
	Thomas Jefferson HSST , Alexandria, VA– <i>Web/Mobile App Development Senior Lab</i>	Sep 2012–Jun 2016

WORK	Palantir Technologies , <i>Forward Deployed Software Engineer Intern</i>	May 2018–Present
	Building data integration pipelines and new R flavor Spark support to double users at financial reg. agency	Python, R
	Octo Consulting Group , <i>Associate Consultant/Intern</i>	Nov 2017–Apr 2018
	Led development of chatbot generator pipeline with aims to reduce govt expenses	AWS, Python
	Innovative Defense Technologies , <i>Software Engineer Intern</i>	May 2017–Aug 2017
	Architected a secure chat plugin in a pre-existing web app for a better user experience	Typescript (TS), JS, Java
	Wrote automated unit tests, learned BackboneJS, coded REST backends, wrote build scripts	TS, JS, Java, Bash
	US Army Corps of Engineers , <i>Research Scientist Intern</i>	Jun 2015–Aug 2015
	Researched algorithms to reduce setup & querying computations of K-nearest neighbors for a spatial index	Python

BUILD	BusMan	June 2018–Present
	Engineering system to provide students with school bus after-school parking info to improve safety	Django, Vue
	K-Armed Bandit Notebook	June 2018
	Explored different approaches to the k-armed bandit problem in reinforcement learning	Python
	What's Open @ UVA	Feb 2018–Mar 2018
	Compiled hours of libraries, restaurants, and other institutions around UVA grounds	JS, PHP
	Scout, HoyaHacks	Jan 2018
	Built Chrome extension to search videos by what actually appears in the video	JS
	Developed the AWS backend, included Lambda, Rekognition, EC2, Systems Manager, API Gateway	Python, AWS
	Question-Answering Bot Generator from Website FAQs, RamHacks	Sep 2017
	Coded a web scraper with ML to automatically generate a chat bot from website FAQs	Python, Java
	Image to Crime	Sep 2017–Nov 2017
	Analyzed the relationship between satellite imagery and crime rates in Chicago	Python

LEAD	Hackers@UVA , <i>Co-President, Treasurer, Organizer, Mentor, Participant</i>	Mar 2014–Present
	Spearheading effort to massively increase hacker culture at UVA by providing students opportunities to learn and build,	
	Raised and managed \$80k funds for Hack.UVA '18, boosted attendance by 1.75x from 200 to 550 students, organized caterers	
	Participated in 10 hackathons (won at 1), mentored 2 middle school hackathons	Java, JS, Node, PHP
	Cavalier Symphony Orchestra , <i>Chief Technology Officer</i>	Sep 2016–Present
	Developing and maintaining website to streamline technology use within the club	JS, PHP
	CS 1501 Engineering Web Solutions , <i>Student Lecturer</i>	Jan 2018–May 2018
	Taught a class of 15 college students web app development and design thinking principles	JS
	Natural Language Processing (NLP) Research Group	February 2017–May 2017
	Explored NLP and deep learning which entailed weekly meetings discussing current research	NumPY, Tensorflow

USE	Languages – proficient: Python, Javascript, Java, HTML, CSS, competent: C++, R, SAS, Typescript, PHP, Bash
	Libraries and Tools – proficient: Git, AWS, JQuery, NumPY, competent: Linux, Android Studio, Selenium
