

DAVID ZHAO

SOFTWARE ENGINEER

Looking to challenge the status quo with impactful and innovative software

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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
	Developing data integration pipelines and managing stacks to provide value to the client	Python
	Octo Consulting Group , <i>Associate Consultant/Intern</i>	Nov 2017–Apr 2017
	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	K-Armed Bandit Notebook	June 2018
	Explored different approaches to the k-armed bandit problem in reinforcement learning	Python
	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
	Anacostia National Park App	Jul 2015–Jul 2016
	Completed a geo-narrative audio tour guide app in coordination with an Anacostia National Park representative	Java
LEAD	Hackers@UVA , <i>Co-President, Treasurer, Organizer, Mentor, Participant</i>	Mar 2014–Present
	Building deep corporate relationships to provide significant value to the CS community @UVA	
	Managed \$80k funds for HackUVA '18, boosted attendance by 2.5x from 200 to 550 students, organized all caterers	
	Participated in 10 hackathons (won at 1), mentored 2 middle school hackathons	Java, JS, Node, 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
	Cavalier Symphony Orchestra , <i>Chief Technology Officer</i>	Sep 2016–Present
	Developing website using various javascript libraries and streamlined technology within the club	JS, PHP
	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++, Typescript, PHP, Bash	
	Libraries and Tools – proficient: Git, AWS, JQuery, NumPY , competent: Linux, Android Studio, Selenium	