

# DAVID ZHAO

## SOFTWARE ENGINEER

Looking to challenge the status quo with impactful and innovative software

✉ [contact@davidzhao.me](mailto:contact@davidzhao.me) ☎ (281) 961-7541  
111 Shamrock Rd, Charlottesville, VA 22903

LEARN	<b>University of Virginia</b> , Charlottesville, VA B.S., Computer Science and Statistics double major, Overall GPA-3.9 Coursework: Operating Systems (C), Info Retrieval (Java), Text Mining (Py), Machine Learning (Py), Computer Vision (Py), Algorithms (Py), Computer Architecture (C), Regression Analysis, Math Stats, Linear Algebra, Probability, Multivariable Calculus	Aug 2016–May 2019
	<b>Thomas Jefferson HSST</b> , Alexandria, VA– <i>Web/Mobile App Development Senior Lab</i>	Sep 2012–Jun 2016
WORK	<b>Palantir Technologies</b> , <i>Forward Deployed Engineer</i> Writing and testing the HackerRank coding challenge for recruiting Path interns for Summer 2019 Built data integration pipelines working alongside the customer to provide them with previously inaccessible data Debugged, maintained, & upgraded product instance and prototyped new product features	May 2018–Present Python Python R, Java, TS, React
	<b>Octo Consulting Group</b> , <i>Associate Consultant/Intern</i> Led development of an automated chatbot generator pipeline to convert an FAQ page into an integratable Lex bot	Nov 2017–Apr 2018 AWS, Python
	<b>Innovative Defense Technologies</b> , <i>Software Engineer Intern</i> Architected a secure chat plugin in a pre-existing web app for a better user experience Wrote automated unit tests, learned BackboneJS, coded REST backends, wrote build scripts	May 2017–Aug 2017 Typescript (TS), JS, Java TS, JS, Java, Bash
	<b>US Army Corps of Engineers</b> , <i>Research Scientist Intern</i> Researched algorithms to reduce setup & querying computations of K-nearest neighbors for a spatial index	Jun 2015–Aug 2015 Python
BUILD	<b>BusMan</b> Engineering system to provide students with school bus after-school parking info to improve safety Talking with schools in Fairfax County to pilot and iterate on the product this year	June 2018–Present Django, Vue
	<b>K-Armed Bandit Notebook</b> Explored different approaches to the k-armed bandit problem in reinforcement learning	June 2018 Python
	<b>What's Open @ UVA</b> Compiled hours of libraries, restaurants, and other institutions around UVA grounds	Feb 2018–Mar 2018 JS, PHP
	<b>Scout, HoyaHacks</b> Built Chrome extension to search videos by what actually appears in the video Developed the AWS backend, included Lambda, Rekognition, EC2, Systems Manager, API Gateway	Jan 2018 JS Python, AWS
	<b>Question-Answering Bot Generator from Website FAQs, RamHacks</b> Coded a web crawler/scrapper with ML techniques to automatically generate a chat bot from website FAQs	Sep 2017 Python, Java
	<b>Image to Crime</b> Analyzed the relationship between satellite imagery and crime rates in Chicago	Sep 2017–Nov 2017 Python
LEAD	<b>Hackers@UVA</b> , <i>Co-President</i> Spearheading effort to massively expand hacker culture at UVA by increasing student exposure to industry workshops & skills Raised and managed \$80k funds for Hack.UVA '18, boosted attendance by 1.75x from 200 to 550 students, organized caterers Participated in 10 other hackathons, mentored 2 middle school hackathons	Feb 2017–Present Java, JS, Node, PHP
	<b>Cavalier Symphony Orchestra</b> , <i>Chief Technology Officer</i> Developing website to fundamentally change how technology is leveraged in the club	Sep 2016–Present JS, PHP
	<b>CS 1501 Engineering Web Solutions</b> , <i>Student Lecturer</i> Taught a class of 15 college students web app development and design thinking principles	Jan 2018–May 2018 JS
	<b>Natural Language Processing (NLP) Research Group</b> Explored NLP and deep learning which entailed weekly meetings discussing current research	February 2017–May 2017 NumPY, Tensorflow
USE	<b>Languages</b> – proficient: Python, Javascript, Java, HTML, CSS, R, competent: C++, C, SQL, Typescript, Bash, PHP, SAS <b>Libraries</b> – Django, JQuery, React, Vue, Bootstrap, NumPy <b>Tools</b> – Git, AWS, Linux, Android Studio, Selenium	