

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 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>	Aug 2016–May 2019 Sep 2012–Jun 2016
WORK	Palantir Technologies , <i>Forward Deployed Software Engineer Intern</i> Building data integration pipelines and new R flavor Spark support to double users at financial reg. agency Octo Consulting Group , <i>Associate Consultant/Intern</i> Led development of chatbot generator pipeline with aims to reduce govt expenses Innovative Defense Technologies , <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 US Army Corps of Engineers , <i>Research Scientist Intern</i> Researched algorithms to reduce setup & querying computations of K-nearest neighbors for a spatial index	May 2018–Present Python, R Nov 2017–Apr 2018 AWS, Python May 2017–Aug 2017 Typescript (TS), JS, Java TS, JS, Java, Bash Jun 2015–Aug 2015 Python
BUILD	BusMan Engineering system to provide students with school bus after-school parking info to improve safety K-Armed Bandit Notebook Explored different approaches to the k-armed bandit problem in reinforcement learning What's Open @ UVA Compiled hours of libraries, restaurants, and other institutions around UVA grounds Scout, HoyaHacks 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 Question-Answering Bot Generator from Website FAQs, RamHacks Coded a web scraper with ML to automatically generate a chat bot from website FAQs Image to Crime Analyzed the relationship between satellite imagery and crime rates in Chicago	June 2018–Present Django, Vue June 2018 Python Feb 2018–Mar 2018 JS, PHP Jan 2018 JS Python, AWS Sep 2017 Python, Java Sep 2017–Nov 2017 Python
LEAD	Hackers@UVA , <i>Co-President, Treasurer, Organizer, Mentor, Participant</i> 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 Cavalier Symphony Orchestra , <i>Chief Technology Officer</i> Developing and maintaining website to streamline technology use within the club CS 1501 Engineering Web Solutions , <i>Student Lecturer</i> Taught a class of 15 college students web app development and design thinking principles Natural Language Processing (NLP) Research Group Explored NLP and deep learning which entailed weekly meetings discussing current research	Mar 2014–Present Java, JS, Node, PHP Sep 2016–Present JS, PHP Jan 2018–May 2018 JS February 2017–May 2017 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