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–*Web/Mobile App Development Senior Lab*   Sep 2012–Jun 2016

WORK **Palantir Technologies,** *Forward Deployed Software Engineer Intern*   May 2018–Present

Building data integration pipelines and new R flavor Spark support to double users at financial reg. agency   Python

Octo Consulting Group, *Associate Consultant/Intern*   Nov 2017–Apr 2018

Led development of chatbot generator pipeline with aims to reduce govt expenses   AWS, Python

Innovative Defense Technologies, *Software Engineer Intern*   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, *Research Scientist Intern*   Jun 2015–Aug 2015

Researched algorithms to reduce setup & querying computations of K-nearest neighbors for a spatial index   Python

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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

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LEAD **Hackers@UVA,** *Co-President, Treasurer, Organizer, Mentor, Participant*   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, *Chief Technology Officer*   Sep 2016–Present

Developing and maintaining website to streamline technology use within the club   JS, PHP

CS 1501 Engineering Web Solutions, *Student Lecturer*   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

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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

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