

DAVID ZHAO

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SOFTWARE ENGINEER

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Using machine learning to make all our lives more productive and meaningful

EDUCATION	University of Virginia , Charlottesville, VA B.S. Computer Science with second in Statistics, Overall GPA - 3.90, Major GPA - 4.00 Fall '17 : Machine Learning, Computer Architecture, Theory of Computation, Regression Analysis, Math Statistics Spring '17 : Program & Data Rep., Linear Algebra, Probability, Discrete Math Thomas Jefferson HSST , Alexandria, VA - <i>Web/Mobile App Development Senior Lab</i>	Aug 2016 - May 2020 Sep 2012 - Jun 2016
WORK	Innovative Defense Technologies , Arlington, VA - <i>Software Engineer Intern</i> Developed a socket-based chat plugin from scratch as internal & maintainable alternative Learned BackboneJS & UnderscoreJS, coded REST backends, wrote make/build scripts US Army Corps of Engineers , Alexandria, VA - <i>Research Scientist Intern</i> Developed algorithms to reduce setup and querying computations of a K-nearest neighbors on a spatial index TJ Middle School Tech Institute , Fairfax, VA - <i>Teaching Assistant</i> Taught 120 middle school students basic app development in workshop and one-on-one settings Math Tutor , Alexandria, VA - <i>Volunteer/Tutor</i> Tutored dozens of at-risk middle school students and two high school students on math topics	May 2017 - Present Typescript, JS, Java, Postgres Typescript, JS, Java, Bash Jun 2015 - Aug 2015 Python Sep 2014 - Jun 2014 App Inventor Feb 2013 - Jun 2016
ACTIVITIES	Natural Language Processing Research Group Exploring NLP and deep learning which entailed weekly meetings discussing current research Taking online courses in Machine Learning and trying different python libraries HackUVA , <i>Treasurer, Organizer, Mentor, Participant</i> Organized HackUVA '17, treasurer for HackUVA '18, personally contacted 65+ sponsors and organized all caterers As well, participated in 8 hackathons with more to come, mentored 2 middle school hackathons Cavalier Symphony Orchestra , <i>Chief Technology Officer, Principal Trumpet</i> Developing website and streamlining technology and communication within the club	February 2017 - Present Python NumPy, Theano, Tensorflow Mar 2014 - Present all caterers Java, JS, Node, PHP Sep 2016 - Present JS
PROJECTS	Basic Recurrent Neural Network Created a recurrent neural network that generates text in the prose of the training text Personal Web Page Created an aesthetic resume and daily programming journal website, link at bottom Neural Network in Google Sheets Implemented and trained a neural network with programmable hyperparameters in Google Sheets Anacostia National Park App Created a geo-narrative audio tour guide app in coordination with an Anacostia National Park representative Rubik's Cube Club , <i>Developer/Co-President</i> Elected co-president to develop high school's Rubik's Cube club website and manage communications	Jul 2017 Python Jan 2016 - Present JS Jul 2017 Jul 2015 - Jul 2016 Java Nov 2015 - Jun 2016 JS, PHP
SKILLS	Programming Languages Python - Javascript - C++ - Java - Typescript - Bash - PHP - C# - HTML - CSS Software and Tools Git Bash - Linux - Selenium - VS Code - Powershell - Android Studio - GIMP - Blender - Unity 3D	
GITHUB	LINKEDIN	WEBSITE
www.github.com/davidbzhao	www.linkedin.com/in/davidbzhao	davidzhao.me

More information @ davidzhao.me/Resume