

Currently a 3rd year Computer Science major studying at the University of Virginia, School of Engineering and Applied Science. Areas of interest include: Software Engineering, UI/UX design, and Machine Learning/AI. Areas of expertise include: Java, Python, Angular2, HTML, CSS, Git, AWS setup and usage, and UI design.

Projects

- 2017 Summer **Summer internship at SimonComputing.** Worked on a “Data Dictionary” web application, which held metadata about databases. Led the front-end team of interns which used the Angular2.0 Framework, AWS, and Jenkins to build and deploy the application. Also was a part of the back-end team, which used Java SpringBoot, MySQL, and REST endpoints to store and retrieve the data for the Data Dictionary.
- 2017 Spring **Final project for Computer Vision class.** Worked as a team to create a facial recognition web application. Was responsible for the back-end which used the OpenCV python library to process images, isolate faces, and train and run a machine learning based Eigenface recognizer.
- 2016 Summer **Summer internship at NASA Langley Research Center.** Worked on Brainwave Modulated Robots, which used Neurosky EEG headsets to measure subconscious states such as attentiveness and focus. Used C to control an Arduino-based robot using the EEG data. Later added an interface which could vary the number of robots which responded to the user depending on their amount of focus.
- Also, worked with the Crew Systems and Aviation Operations Branch with a team of other interns to collect and analyze assorted data from pilots in flight simulators to assess their mental state. Used EEG, fNIRS, GSR, and EKG monitors to collect data which fed into a Python-Scikit powered machine learning program.
- Misc. **Personal Projects.** Examples include: a data scraper and parser which read text, excel, json, etc. file formats (Java), a web scraper which traversed the DOM of various pages for specific information (Python), a bot for a discord server which reacted to user commands and displayed images or played music (NodeJS), a mockup website for a friend to demonstrate CSS (Html, CSS, JQuery).
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Education

- Pursuing a Computer Science Major at the University of Virginia School of Engineering and Applied Science. **GPA: 3.8.** Expected graduation in May 2019.
 - Notable Classes Taken:

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| CS 2102 Discrete Math | CS 2150 Programs and Data Representation |
| CS 3240 Advanced Software Development Methods | CS 3330 Computer Architecture |
| CS 4501 Intro to Computer Vision | CS 4750 Database Systems |
 - Graduated as valedictorian of York High School’s class of 2015 while taking courses dual-enrolled at Thomas Nelson Community College
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Other Activities

- Built Desktop PCs for friends and family from parts
- Finalist in several piano competitions at the state level (VA Music Teachers Association)
- Community Volunteering (Library, Virginia Living Museum, Church, Tennis Club)
- 1600 USCF Chess rating, 2nd place in the Virginia Scholastic Championship
- Member of York High School Varsity Tennis team for 3 years
- 1st place team in the Java section of the 2014 Great Computer Challenge at Old Dominion University