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EDUCATION

University of Virginia, School of Engineering and Applied Science **B.S. Expected May 2018**
GPA: 3.6 **Major:** Computer Science
Coursework: Operating Systems, Databases, Ecommerce Technology, Computer Algorithms, Computer Architecture, Advanced Software Development Techniques, Mobile App Development, Human Computer Interaction in Software Development, Theory of Computation, Program & Data Representation, Digital Logic Design, Technology & Design Thinking, Software Development Methods

WORK EXPERIENCE

IBM (International Business Machines) **Jun. 2017 - Aug. 2017 | New York, NY**
Software Engineering Intern: Cognitive Environments Team

- Employed IBM Watson NLP and Discovery Services to digest millions of online news articles
- Developed summarization algorithms of news data that reached up to 85% compression ratios
- Customized React components of responsive detail views for use in 12 Watson Demos for React v.16
- Utilized Node.js to create 10+ RESTful API's and deployed them over IBM Bluemix
- Created 50+ news filters and aggregate functions for raw relationship data received from Watson APIs
- Integrated the React Framework with D3 to create a fully responsive UI and visualizations of relationship data
- Utilized Three.js and A-Frame to generate realistic visualizations of data in immersive environments

UVA Teaching Excellence Center **Aug. 2016 - Jan. 2017 | Charlottesville, VA**
Database Engineer

- Created data conversion tools with Apache POI to mass convert 10,000+ poll outputs from .csv to .xls
- Designed JXLS table algorithms to process 500,000+ data entries to output statistics in Excel workbooks
- Utilized statistical threshold techniques and probability POI protocols for data compression and red flag indicators

Center for Nonprofit Excellence (CNE) **Jun. 2016 - Aug. 2016 | Charlottesville, VA**
UX Engineer/Data Analyst Intern

- Created responsive UIs of high-fidelity websites to display 1,000+ nonprofit salary reports using HTML/CSS/JS
- Implemented Python web scrapers to update CNE Resource Databases of nonprofit sectors and salaries
- Lead the development and publishing of a City-Wide Nonprofit Salary Survey of 500+ nonprofits

PROJECTS

The NewsTree Project **Jun. 2017 – Present | New York, NY**
Founder and Sole Software Developer

- Created a Node.js powered News Search Engine and Watson-Discovery API of 300,000 entry database updated daily
- Used IBM Watson NLU and Discovery Services to power React.js UI's and D3 visualizations of current news topics
- Enhanced user experiences with HCI devoted high-fidelity design and cognitive load reduction algorithms

Smart Ads, IRL **Jul. 2017 | New York, NY**
Front End/Back End Engineer

- Developed a Node.js training API Visual Recognition services on user appearance, clothes, and accessories
- Implemented a React.js UI to display advertisements based on IOT-obtained(Raspberry Pi 3) user appearance

LEADERSHIP EXPERIENCE

Norfolk Science and Technology Center for Advanced Research (NORSTAR) **Sept. 2014-Present | Norfolk, VA**
President/Project Director-Robotics Division (Current Alumni Advisor)

- Built 7 radio-controlled 100lb robots powered by PWM-Transceiver Motor Controllers
- Programmed 3 C++ powered autonomous 50lb robots driven by Sonic Transceiver and Controller integration
- Mentored 100+ students on 3D printing, ER-4U Manufacturing, C/C++ practices, Autodesk Inventor/CAD

SKILLS AND INTERESTS

Programming Languages: JavaScript, Java, Python, Ruby, C, C++, Objective C, Swift, HTML/CSS, SQL
Frameworks and Design Libraries: React, D3.js, Three.js, Node.js, jQuery, Django, Bootstrap, Apache POI
Operating Systems: Mac OS, Windows, Unix/Linux
Applications and Software: GitHub, Slack, Pivotal Tracker, Photoshop, Autodesk Inventor, AutoCAD, MS Suite
Interests and Hobbies: Technosonics/Digital Music Making, DJing, Robotics, Tennis, Scuba Diving, Personal Fitness