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Portfolio Links:
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EDUCATION

University of Virginia, Charlottesville, Virginia

Bachelor of Science in Computer Science; *Minor* in Business

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Cyber Security, Networks and Network Security

Coursera Certifications: Google IT Automation, Amazon AWS, IBM Data Science, Penetration Testing, NYU Cyber Security

Expected Graduation Date May 2021

Major GPA 3.75; Cumulative GPA 3.7

WORK EXPERIENCE

Know Your Vote

May 2020 – Present

Backend Developer & Web Scraper

- Create a Python script to scrape data from 500+ political candidate websites
- Use Heroku scheduler and Tweet Scraper API to retrieve and import thousands of tweets
- Restructure website backend by adding and manipulating models in Django
- Develop a quiz capable of matching individuals to candidates with similar ideologies, based on a five-point Likert scale

East Point Energy

June 2020 – August 2020

Software Developer

- Utilized Python APIs to gather data from Salesforce and Smartsheet, generating templated reports
- Created and managed GitHub repository, enabling management to use integration software
- Collaborated with team of interns to brainstorm ways to increase organizational connectivity
- Presented weekly research to upper management, translating projects and findings into nontechnical language

Electrical/ Computer Engineering Departments

May 2019 to August 2019

Research Assistant

- Created n-ary tree data structure in Java to find maximal independent set of n-bit binary strings
- Analyzed maximal independent set find error correcting codes

Allen Richards, LLC

June 2016 – June 2018

IT Manager

- Headed technical resource installation and management, increasing workplace productivity and operational efficiency
- Expanded organizational outreach by automating work orders and company feedback

PROJECTS

RSA Implementation

- Built original iteration of RSA encryption in Java capable of computing private and public keys of 32 or 64 bit
- Encrypted and decrypted messages from input text

Cam Coin

- Developed personal form of Python-based cryptocurrency using block chain and ledgers

Collatz Conjecture

- Constructed C++ program able to compute whether a number reduces to one and as well as corresponding number of steps

TECHNICAL SKILLS & STRENGTHS

- **Languages:** C/C++, Java, Python, JavaScript, Lean and
- **Modeling and Analysis:** Logisim, Excel, Mathematica, and Matlab
- **Software and Tools:** GitHub, Heroku, TravisCI, Django, Nmap, Wireshark, JohnTheRipper and VirtualBox