

Max Smith

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[GitHub](#) | [LinkedIn](#) | [Website](#)

EDUCATION

DUKE UNIVERSITY PRATT SCHOOL OF ENGINEERING, Durham, NC **Class of 2021**
Bachelor of Science in Electrical Engineering and Computer Science, Minor in Economics
GPA: 3.73/4.0 | Dean's List | Graduate with Distinction

WINSTON CHURCHILL HIGH SCHOOL, Potomac, MD **Class of 2017**
High School Diploma (Class President, Top 5% of Class)
GPA: 4.0/4.0 (4.8 weighted) | ACT: 35/36 | SAT Math II: 800/800

TECHNICAL EXPERIENCE

Programming Languages | Python, Swift, Java, Bash, C, JavaScript, Node, React, HTML, CSS, MATLAB, Excel VBA

WORK EXPERIENCE

APPLE, Cupertino, CA **Summer 2021 – Present**
Software Design Engineer, Software Tools and Automation Team

- Automating workflows for validating and certifying wireless performance for prototype devices
- Developed macOS application to automate wireless coexistence testing, increasing productivity by 20x
- Designed and implemented Django web application to automate prototype unit management
- Developing MERN application to automate test campaign creation and provide insights into factory station utilization
- Managing relationships and project timelines between in house engineers, factory contractors, and chipset vendors

DUKE OFFICE OF INFORMATION TECHNOLOGY, Durham, NC **Fall 2020**
Automation Team Developer

- Automated various university COVID compliance and financial processes, increased efficiency by 60x
- Designed, developed, and deployed data driven MIPS assembler for computer architecture students

CAPITAL ONE, Richmond, VA **Summer 2020**
Software Engineering Intern, Technology Internship Program

- Worked on an Agile DevOps team to migrate credit card authorization platform to AWS Fargate
- Placed first in business hackathon for data driven performance test validation, saving engineers days of time
- Presented serverless proof of concept to leadership highlighting improvements to cost, security, and workflow efficiency
- Volunteered with Capital One Coders to educate underprivileged students on building a Markov chain bot with Python

DOMUSYS, Bethesda, MD **Summer 2019**
Machine Learning Intern

- Analyzed auditory and ambient impacts of home appliances for a startup offering home analytics through remote sensing
- Determined specifications for an IoT wall plug with integrated sensors, leveraging research and system knowledge
- Worked in a Linux environment to design and integrate AI models within prototype ecosystem
- Created first real-time classification demonstration as proof of concept for investor pitches

COLLEGIATE INVOLVEMENT

Franklin Lab of Electronics | Printed nanomaterial sensors to improve car safety, 1st place ECE research contest **Spring 2019**

Canine Cognition Center | Volunteered with service dogs to train and foster socialization **Spring 2020, Fall 2018**

Nicolelis Lab | Investigated neural remapping techniques to develop neuroprosthetics for paraplegics **Summer 2018**

Hack Duke | Competed in 24-hour hackathon; designed and coded refrigerator management iOS application **Fall 2018**