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: 3.72/4.0 | Dean's List

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 | Java, Python, C, SpringBoot, Docker, JavaScript, HTML, CSS, MATLAB, Excel VBA

Relevant Coursework | Advanced Software Design, Data Structures and Algorithms, Computer Architecture, Digital Systems, Operating Systems, Machine Learning, Data Analysis and Decision Science, Databases and Information Systems

WORK EXPERIENCE

APPLE, Cupertino, CA   **Summer 2021**
Incoming Software Design Engineer

DUKE OFFICE OF INFORMATION TECHNOLOGY, Durham, NC   **Fall 2020**
Automation Team Developer
- Automating various COVID compliance and financial processes across Duke to increase efficiency and productivity
- 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 in addition to due diligence analysis outlining technical obstacles and successes

FRANKLIN LAB OF ELECTRONICS FROM NANOMATERIALS, Durham, NC   **Spring 2019**
Research Assistant, Duke Department of Electrical Engineering
- Printed nanomaterial sensors to improve car safety by detecting tire tread thickness down to a millimeter scale
- Explored various fabrication schema and conducted research with graduate students to improve nanomaterial sensitivity
- Delivered final presentation on experimental results and future research topics, placing first in the Spring 2019 Electrical and Computer Engineering Independent Study research competition

COLLEGIATE INVOLVEMENT

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**