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: 3.7/4.0 | 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

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**