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: 3.66/4.0 | Dean's List (Fall 2018, Spring 2019)

WINSTON CHURCHILL HIGH SCHOOL, Potomac, MD **Class of 2017**
High School Diploma (Top 5% of Class, Class President)
GPA: 4.0/4.0 (4.82 weighted) | ACT: 35/36 | SAT Math II: 800/800

TECHNICAL EXPERIENCE

Programming Languages | Java, Python, MATLAB, HTML, CSS, JavaScript

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

PROJECTS

CASINO CARD GAME ENGINE, Durham, NC **Spring 2020**
- Designed and implemented framework to build card games through data file configuration.
- Conducted work in Agile sprints, demoing progress on a weekly basis to professor.

HACK DUKE 2018, Durham, NC **Fall 2018**
- Competed in 24-hour hackathon where my software team designed and coded refrigerator management system.
- Researched and implemented Google Cloud Vision API to parse receipt items with optical character recognition.

WORK EXPERIENCE

CAPITAL ONE, Richmond, VA **Summer 2020**
Software Engineering Intern, Technology Internship Program
- Performed in DevOps team, implemented serverless deployment of rule validation platform on AWS Fargate.
- Demoed proof of concept to leadership highlighting improvements to cost, security, and efficiency.
- Placed first in line of business hackathon for performance test validation project, saving engineers days of time.
- Volunteered with Capital One Coders to educate underprivileged students on building Markov chain bots with Python.

DOMUSYS, INC., Bethesda, MD **Summer 2019**
Software Engineering 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 a 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

Nicolelis Lab | Investigated neural remapping techniques to develop neuroprosthetics for paraplegics. **Summer 2018**
Canine Cognition Center | Volunteered with service dogs to foster socialization and begin training. **Fall 2018, Spring 2020**