JOSEPH O'SUCH

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EDUCATION

Virginia Polytechnic Institute and State University – Honors College   **Blacksburg, VA**
Mechanical Engineering & Computer Science double major
Expected Graduation: May 2024   GPA: 4.0

TECHNICAL SKILLS

Programming: HTML, CSS, JavaScript, Java, Python, C, MATLAB, Mathematica, Docker
Other: MS Office, SolidWorks, UiPath Studio

LEADERSHIP EXPERIENCE

Boring VT – The Diggeridoos   **2020-Present**
Lead Hardware Engineer
- Oversee key projects in construction of a tunnel boring machine such as the cutter face, hydraulic launch platform, and tunnel segments
- Foster relationships with industry sponsors, manage logistics, and network within Virginia Tech departments
- Selected to compete at the 2021 and 2023 Not-a-Boring Competition from 400 applicants
- Leading senior design team researching how to streamline soil extraction and hydraulics to reduce dig time

INVOLVMENT

Virginia Tech Human Powered Submarine Team   **2020-Present**
- Contribute to the design and fabrication of a human-pedaled submarine, focusing on drive train components
- Engage with the community to build team standing and recruit new members

IEEE at Virginia Tech   **2022-Present**
- Participate in professional organization for computer, electrical engineering and computer science students
- Attend company outreach events, general meetings, and social/networking events
- Engage with VT faculty and industry professionals to gain valuable insight

WORK EXPERIENCE

CACI   **Herndon, VA**
Software Intern   Summer 2021, 2022
- Developed ML pipeline tool using Docker, Node.js, Python, MongoDB and WebGME (meta-modeling tool)
- Transformed ML pipeline project from command line scripts to user-friendly UI with file upload capabilities
- Developed project plans for research on digital twins to bolster CACI's capabilities in the sector
- Launched project applying robotic process automation (RPA) in security operation centers
- Created proof of concept RPA workflow in UiPath for malware analysis with time reduction of 57%

Amazon Web Services   **Arlington, VA**
Solutions Architect Intern   Summer 2023
- Created a comprehensive workshop for a Salesforce Application, guiding users through application setup, features, and use cases
- Conducted testing to identify bugs and logical errors
- Obtained AWS Cloud Practitioner and SA Associate certifications