JASON DEVERS

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EDUCATION

University of Maryland, *College Park* **Aug 2020 - May 2024**
B.S. Computer Science, Minor in Advanced Cybersecurity
Honors: QUEST Honors Program, Clifford M. and Camille E. CMNS Scholarship, Dean's List
Relevant Coursework: Algorithms, Data Structures, Object Oriented Programming I/II, Data Science, Linear Algebra, Computer Networks, Computer Vision, Applied Quantitative Analysis, Organization of Programming Languages, Computer Systems, Cryptography, Discrete Structures, Calculus I/II/III

SKILLS

Programming: C/C++, Java, Python, Ruby, Ocaml, Rust, Go, SQL, HTML/CSS, Javascript, MATLAB, LaTeX, Assembly
Frameworks/Libraries: Flask, React, xUnit/JUnit, Jupyter, Node.js, MongoDB, Pandas/NumPy, OpenCV, TensorFlow
Tools/Operating Systems: Git, Linux, macOS, Windows, ROS, Docker, Azure Cloud, Ghidra, Wireshark, VMs, APIs

EXPERIENCE

Software Engineering Intern, *Booz Allen Hamilton* **June 2022 - Aug 2022**
- Established secure communication between servers and clients, using C++, Python, Linux, and security protocols to successfully defend against 48/50 attacks in Booz Allen internal tool testing.
- Reverse engineered binaries to conduct vulnerability analysis using Python, Ghidra and Wireshark to decrypt communication, writing 3 exploitations that successfully took internal testing systems offline.
- Solved Xtensa processor instruction set in assembly to enable Ghidra to process binary files with 90% accuracy.
- Presented outline and documentation to Booz Allen staff for deployment.

Cleared Research Assistant, *Applied Research Lab for Intelligence and Security* **Sept 2022 - Current**
- Examined NLP using techniques involving AI/ML based off predictive analytics to examine risk assessments.
- Identified, tested, and resolved 2 previous projects to improve scalability and design.
- Oversaw 3 intern projects to delegate and manage project timeline and deliverables using Agile and DMAIC process improvement.

Coding Instructor, *UMD Computer Science Department* **Aug 2022 - Current**
- Formulated and lectured course content for over 150 students, teaching topics such as Graphs, OOP, and Algorithms.
- Analyzed logic and identified flaws in algorithms designed by students from across 300 various assignments and exams.

Software Engineering Intern, *Johns Hopkins Applied Physics Lab* **June 2018 - Sept 2018**
- Constructed autonomous system and charted LIDAR using Python, ROS, Linux, VM-Ware, MATLAB to launch robot.
- Enhanced algorithm to demonstrate computer-vision using LIDAR to scan surroundings, and a colored-camera to detect certain objects, taking system surroundings from 90° to 270°.
- Documented ROS manual for Johns Hopkins APL staff for future Navy use.

PROJECTS

Dev[ers]Ops Facial Recognition, *C++, OpenCV, TensorFlow, Axis SDK* **Oct 2022**
- Upgraded facial detection camera to facial recognition security system for my family's house to unlock gates if authorized family member is approaching with 70% accuracy.
- Built classifier from training/testing images of family member's faces using open-source ML/AI.
- Tested classifier extensively to successfully recognize 3/4 family members.

SCORE Association Ticket Routing, *Python, JSON, spaCy, NumPy/Pandas* **Sept 2022**
- Redefined NLP functionality for Score Association company to streamline ticket processing.
- Synthesized over 1500 ticket reports that categorized tags for ticket, improving routing classification with 92% accuracy.

RA BOT, *Python, Flask, BeautifulSoup, JSON, Heroku Cloud, GroupMe/Google Calendar API* **Aug 2022**
- Designed bot to interact with my residents in our GroupMe: reminds residents of events via Google Calendar, checks for profanity, helps residents with FAQs, and plays games.
- Parses through the online dining hall menu using BeautifulSoup and informs residents when there's chicken-tenders.
- Working with a supervisor to scale bot to multiple RA staffs.

SenCycle, *C++, Arduino* **March 2021**
- Devised a blind-spot detection system for bicycle-users using scripts, sensors, and lights.
- Covered 200° behind cyclists to ensure safety and security.

LEADERSHIP

Resident Assistant, *UMD Residential Life* **July 2021 - Current**
- Facilitated community development and enforced student conduct and crisis management, guiding over 500 students.
- Coordinated over 20 annual events for community-wide programming to promote inclusivity.

Director of Recruiting/Mentor, *QUEST* **Aug 2022 - Current**
- Implement essential skills for mentoring and coaching multidisciplinary teams, including: effective communication, facilitation, conflict resolution, and the ability to motivate.
- Guide 9 student teams in involving Design-Thinking, DMAIC/DMEDI, Six-Sigma, Agile Development, Kaizen, and more.
- Organized and spoke at informational events for over 300 students to learn about the program.