

JASON DEVERS

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EDUCATION

University of Maryland, College Park

Aug 2020 - May 2024

B.S. Computer Science, Minor in Advanced Cybersecurity

GPA: 3.3

Honors: QUEST Honors Program, Clifford M. and Camille E. CMNS Scholarship, Dean's List

Relevant Coursework: Algorithms, Data Structures, OOP I/II, Data Science, Computer Networks, Computer Vision, Linear Algebra, Computer Systems, Cryptography, Discrete Structures, Organization of Programming Languages, Calculus I/II/III

SKILLS

Programming: C/C++, Java, Python, Ruby, Ocaml, Rust, HTML/CSS, Javascript, MATLAB, \LaTeX , Assembly

Operating Systems: Linux, macOS, ROS, Kali-Linux, Windows

Tools: Git/GitHub, Flask, Pandas/NumPy, Angular, Jupyter, Docker, OpenCV, TensorFlow, JUnit, Ghidra, Wireshark, VMs

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, Dlib

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.

Mentor/Team Lead Recruiter, 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.