Gabriel Gladstone

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EDUCATION

University of Virginia — Charlottesville, VA
Bachelor of Science, Computer Engineering, GPA 3.9 — *Expected May 2025*

EXPERIENCE

Information Security Engineer Intern at Mastercard — Jun 2023 – August 2023
Emerging Corporate Security Solutions — *Arlington, VA*
- Automated a Modern Access metric dashboard using Domo to reduce reporting time by 10 hrs/month.
- Integrated Log Analytics API into the data pipeline to reduce BI data intake by 99%.
- Leveraged the Scrum framework to meet project goals following Zero Trust principles.
- Pitched a blockchain-based student budgeting tool and placed 3rd in the Global Intern Innovation Challenge.

Undergraduate Research Assistant — Nov 2021 – May 2022
Scully Research Group — *Charlottesville, VA*
- Improved the metallographic sample preparation process to decrease supply usage while maintaining quality.
- Performed a half-dozen Electrochemical Impedance Spectroscopy tests to characterize corrosive behavior of molten salts contributing to the FUTURE Energy Frontier Research Center.
- Researched and conducted a literature review on the relevance of double layer capacitance to corrosion science.

Collegiate Cyber Defense Competition Team Member — Aug 2021 – Present
Cyber Network Security Club at UVA — *Charlottesville, VA*
- Configured Graylog monitoring and firewall protections to protect 7 VMs on a network.
- Authored security memos encompassing incident alerts, vulnerability assessments, and policy updates.
- Applied networking, cryptography, and forensic fundamentals to compete in capture the flag competitions.

Power and Hardware Integration Team Member — Aug 2021 – Present
Solar Car Club at UVA — *Charlottesville, VA*
- Led project to design and create six waterproof printed PCB enclosures using Fusion 360.
- Created a testing procedure to standardize testing the voltages of over two hundred battery cells.
- Contributed to the design of the battery box modules using Autodesk CFD's fluid dynamic software as guidance.
- Wired, soldered, and assembled hundreds of battery cells to be used as the main power source for the solar car.

Teaching Assistant — Aug 2023 - Present
Computer Systems and Organization 2 — *Charlottesville, VA*
- Supported over 300 students with C/Assembly code reviews, daily Q/A, and weekly office hours.

PROJECTS

Contributor, Spectrum Analyzer Holiday Light Show 📄 | *Matlab, Waveforms, Multisim, Ultiboard*
- Designed, validated, tested, assembled, and debugged a multi-component frequency-driven system.
- Implemented a sub-system for scale that was 5x cheaper then standard architecture.
- Applied circuit and frequency analysis fundamentals to efficiently troubleshoot a multivariable system.

Project Lead, Smart Trash 📄 | *Arduino Microcontroller/IDE/Cloud*
- Created a wireless detection system for waste collection using an Arduino IOT microcontroller and Arduino products to alert staff where and when a trash can is full on campus.
- Programmed the system using the Arduino IDE and Arduino Cloud, implementing physics-based calculations for improved accuracy.
- Improved my ability to use the engineering design process by creating this semester long project to meet the NAE grand challenge of restoring and improving urban infrastructure.

Developer, A.T.M Finder 📄 | *Capital One Nessie API, Postman, React.js, Python*
- Enabled users to find the closest ATM utilizing Captial One's Nessie API.

ACHIEVEMENTS AND SKILLS

Achievements: Deans List 2021 - 2023, AP Scholar, School Finalist - American Computer Science League
Languages: Java, C, C++, Assembly, Python, Matlab, Powershell, React.js, HTML, JavaScript, SQL
Tools: Linux, AzureAD, Bash, PCB Design/Assembly, KiCad, Git, Wireshark, Arduino, TI MSP432, PowerBI, Alteryx