Gabriel Gladstone

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Education

University of Virginia — Charlottesville, VA
Bachelor of Science, Computer Engineering, GPA 3.93 — *Expected May 2025*
Master of Engineering, Computer Engineering, GPA 3.9 — *Expected Dec 2025*

Achievements and Skills

Certifications: AWS Certified Cloud Practitioner, Fannie Mae AI Acumen in Housing Finance Industry
Achievements: The Raven Society, Deans List 2021-2023
Languages: Java, C, C++, Assembly, Python, Matlab, Powershell, React.js, HTML, JavaScript, SQL
Tools: Linux, AzureAD, ROS2, PCB Design/Assembly, KiCad, Git, Wireshark, Arduino, TI MSP432, PowerBI, Alteryx

Experience

Software Engineer Intern at Freddie Mac — May 2024 – Aug 2024
Enterprise Operations and Technology - Modern Delivery Toolchain Team — *McLean, VA*
- Built a metrics website using Java Spring Boot to track 2,000+ services that use the modern deployment pipeline.
- Jira Administrator improving Jira UI/UX through client meetings and designing ScriptRunner Groovy solutions.

Information Security Engineer Intern at Mastercard — Jun 2023 – Aug 2023
Emerging Corporate Security Solutions - Modern Access Team — *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 corrosion of molten salts.
- Researched and conducted a literature review on the relevance of double layer capacitance to corrosion science.

Project Manager — Aug 2023 - May 2024
Tamid Group at UVA — *Charlottesville, VA*
- Led a team of 6 consultants in recommending a foreign market expansion strategy for Maia Digital.
- Created a scalable automation tool with generative AI that reduced workload by 20 hours for Vegan Friendly.

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 – Aug 2023
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.

Teaching Assistant — Aug 2023 – Dec 2023
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.

Embedded Developer, Cube Chaser | *Tiva C Microcontroller, Educational BoosterPack MKII*
- Designed an operating system for a multi-threaded game on the Tiva C microcontroller.
- Integrated sound and accelerometer sensors following industry standard documentation to improve user feedback.