

Richard Martinez Jr.

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EDUCATION

University of Maryland, College Park, MD | *B.S. in Computer Science* *Expected May 2025*

- GPA: 3.8 / 4.0
- Awards: Dean's List x6, Certificate of Outstanding Achievement x6, OMSE Academic Excellence Award
- Relevant Coursework: Object-Oriented Programming I & II, Intro to Computer Systems, Data Structures I & II, Algorithms, Network & Computer Security, GitHub & Project Tools, Compilers, Web Development, Building Secure Web Apps

SKILLS

Languages: Python, Java, C/C++, JavaScript, SQL, HTML/XML/CSS, OCaml, Racket, Ruby, MATLAB

Software: Git, AWS, Docker, Postman, MongoDB, pgAdmin, Visual Studio, IntelliJ, Google's App Script, Microsoft Office

Certifications: Python, PostgreSQL, AWS Cloud Practitioner (pending)

EXPERIENCE

Software Engineer Intern | *Capital One* *Sep 2024 - Mar 2025*

- Developing a graphical neural network model to predict relationships between API endpoints, generate test data, detect misconfigurations, and analyze the activity of assets within an API gateway environment
- Analyzing large-scale API network graphs to identify patterns in endpoint usage, utilizing graph algorithms and machine learning techniques to uncover trends and inform predictive modeling
- Collaborating in a team of four interns to design and implement the GNN-based solution, participating in weekly meetings to align on project milestones, address technical challenges, and foster effective teamwork and communication

Software Development Engineer Intern | *Amazon* *May 2024 - Aug 2024*

- Reorganized the architectural design of the Subscribe & Save webpage to enable dynamic product placement, enhancing customer satisfaction and product visibility, using AWS, Java Spring Boot Framework, and internal query tools
- Implemented routing modifications across several Subscribe & Save webpages to improve the flow of navigation and user experience for millions of weekly customers, utilizing Java Spring Boot Framework and XML configuration files
- Collaborated with cross-functional teams to define and prioritize feature requests, conducted code reviews, utilized data analytics to optimize performance, and contributed to agile development processes

Database Technician Intern | *Office of Multi-Ethnic Student Education* *Jul 2022 - May 2024*

- Developed the back-end storage system for tutoring analytics to streamline academic support and increase scalability for the program's future growth using JavaScript, Google Sheets, and Google's App Script
- Led the full-stack development of the program's traffic log to handle 7000+ yearly form submissions using the student's ID card to verify correct information and demonstrate growth to the program's sponsors
- Presented weekly meetings with colleagues and the program's executive department to discuss and share ideas, flowcharts, and upcoming features to increase transparency between departments

Executive Board Leader | *Office of Multi-Ethnic Student Education* *May 2022 - May 2024*

- Supported Black and Latino male students in their personal lives, education, and careers through the College Success Scholars program, including tutoring, study groups, and review sessions to promote productivity for 150+ students
- Mentored 4 first-year underrepresented minority Computer Science students for an academic year to increase their engagement in programming

Computer Science Tutor | *College Success Scholars Program* *Aug 2022 - Dec 2022*

- Assisted incoming Computer Science students with concepts and logistics behind Java programming using personalized teaching techniques to ensure that each recipient had a good understanding of the given subject

PROJECTS

Higher Or Lower Game | *Python, Flask, HTML/CSS, Tailwind, django, JavaScript* *May 2024*

- Built a full-stack web application game in which the user is provided a set of games and has to choose the higher-rated game. This game allows users to make personalized encrypted accounts and compete for higher scores.

College Success Scholars Program Database | *JavaScript & Google Sheets* *Mar 2024*

- Developed back-end data structure for the CSS program, enabling efficient viewing of tutoring, traffic data, and analytics through search algorithms, queries, and data structures. Led front-end management for CSS members, facilitating their access to weekly participation analytics.