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## EDUCATION

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**University of Georgia**, Franklin College of Arts & Sciences

May 2026

Bachelor of Sciences in Computer Science; Certificate in Informatics (Expected May 2026)

Master of Science in Computer Science (Expected May 2027, Double Dawgs Accelerated Masters Program)

- 4.0 GPA in Core Computer Science Classes
- Honors: Dean's List, Zelle Miller Scholar
- Societies and Organizations: UGA DevDawgs, Order of Omega, ACM, MathCounts UGA, UGA Miracle, Soci. for Cyber Security

## SKILLS

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- Languages & Frameworks: C, C++, C#, Java, Python, SQL, Typescript, React, ReactNative, Flask, Django, MongoDB, Go, ROS
- Other Programs and Skills: AWS, Azure, Scrum, Kanban, Excel, Unix Environments
- Relevant Coursework: Data Structures, Theory of Computing, Software Development, Systems Programming, Linear Algebra

## PROFESSIONAL EXPERIENCE

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**Research Assistant - Mobility Systems Control (MSC) Laboratory**

March 2025 - Present

- Developing and testing autonomous vehicle control strategies using SUMO, CARLA, and NS-3 to model complex traffic environments and assess decision-making in automated driving systems.
- Implementing AI-driven decision-making models with reinforcement learning and model-based control for connected and automated vehicles (CAVs), optimizing vehicle behavior in real-time.
- Utilizing ROS, Python, and C++ to integrate V2X communication into simulations, enhancing real-world vehicle coordination and safety in intelligent transportation networks.

**Paragon Tech Policy Fellowship, Director of Technology & Development**

December 2023 - Present

- Facilitated strategic partnerships by connecting hundreds of students with local government officials, including state representatives, House members, and city mayors, with over \$100,000 in grant money from through fiscal sponsorships of think tanks like the Federation of American Scientists
- Led the deployment of a multitude of software services by implementing a public website, administrative dashboards, and internal software solutions, enhancing the fellowship's digital presence and operational efficiency; developed reusable React components, decreasing development time for new features by 30% per sprint.

**Georgia Tech Research Institute, SWE Intern**

June 2022 - July 2022

- Collaborated with a team of four interns to develop a facial detection application from scratch, aiding professors in streamlining attendance tracking in the education system and reducing attendance tracking time by 90%.
- Contributed to all stages of the software development lifecycle by working closely with two head researchers to design and develop a facial detection application from scratch.
- Incorporated user feedback to enhance functionality and achieved a 40% increase in user satisfaction, iteratively improving the application on a tight five-week deadline.
- Enhanced Google MediaPipe's facial detection logic to better handle a rapid succession of users, achieving a 43% reduction in data inaccuracies by automating and optimizing the data collection process and file management.

## PROJECTS

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**TechDetect** - Python, OpenCV, Flask, SQL

July 2022

- Created a facial detection program for implementation in the USG education system to help teachers with attendance. Data was easily viewable on an included account-protected flask website through a SQL database

**The WADaily Mobile Project** - React, ReactNative

May 2023

- Ported previously developed school scheduling service to a cross-platform mobile app. Coordinated numerous API pulls and web scrapes from various sources to create an all-in-one student experience

## RECOGNITIONS & AWARDS

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- **Order of Omega**, Member: Recognized as a student in the top 5% of my institution, and a fraternity member that has exemplified high standards in areas of leadership, academics, and involvement within my fraternity and community
- **Congressional App Design Contest**, First Place Winner: Awarded first place in the 2022 competition for my work on TechDetect, award hand selected by state senators and local government representatives