# Carson McNeill

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## EDUCATION

**Georgia Institute of Technology** – Atlanta, GA                    Aug 2023 - (Expected) May 2027
*Bachelor of Science in Computer Science*                                    **Cumulative GPA: 4.0**
- Honors: College of Computing Faculty Honors, Deans List (Fall 2023 - Spring 2025)

**Relevant Coursework**
- **AI / ML:** Intro to Perception and Robotics, Intro to Artificial Intelligence
- **Algorithms:** Design and Analysis of Algorithms, Data Structures and Algorithms, Objects and Design
- **Systems:** Intro to Database Systems, Systems and Networks, Computer Organization and Programs
- **Math:** Statistics and Applications, Discrete Mathematics, Multivariable Calculus, Linear Algebra

## SKILLS

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|---|---|
| **Programming** | Python, Java, C, Swift, HTML, CSS, Assembly, JavaScript, React |
| **Development** | Android Studio, Firebase, GitHub, Lens Studio, MongoDB, Xcode, TensorBoard, Docker |
| **Tools** | Canva, Cura Ultimaker, Google Workspace, Slack, Trello, WordPress |
| **Certifications** | CPR & AED, HIPAA, Lifeguard, PADI, Presidential Service Award |
| **Languages** | English (Native), Chinese (Elementary) |

## PROFESSIONAL AND WORK EXPERIENCE

**The BUKU App** – Remote                                                    Jun 2025 - Aug 2025
*Software Development Intern*
- Engineered native IOS marketplace app in Swift (Xcode), connecting college students to buy and sell locally
- Implemented user authentication, image upload/download, and real-time chat using Firebase Realtime Database & Storage, ensuring seamless user interaction

**DJ** – Atlanta, GA                                                         Aug 2024 - Present
*Self Employed*
- Performed live DJ sets at events, curating music and mixes to match audience preference and foster a sociable atmosphere

**Jumico LLC** – Newport Beach, CA                                           May 2024 - Aug 2024
*Property Development Assistant*
- Wired new construction with Cat-6 and Coax cable for cameras, high speed internet, wifi, and television
- Researched listed, and sold surplus equipment online, generating $1,500+ in revenue

**Merage Jewish Community Center** – Irvine, CA                              May 2022 - Present
*Head Lifeguard*
- Led and trained lifeguard teams, supervised 50+ campers, and managed daily pool operations
- Treated injuries, performed rescues, and oversaw water safety to maintain perfect safety record

## RESEARCH EXPERIENCE

**ViTAL Lab** – Atlanta, GA                                                  Aug 2025 - Present
*Undergraduate Researcher*

- Integrated visual, audio, and wearable sensor data to support AI-driven prediction models of self-injurious behavior in autistic children, aiding early intervention and care

**Agronav Research Replication** – Metz, France                                          Jan 2025 - Apr 2025
*Undergraduate Researcher*
- Replicated and evaluated *Agronav* research paper on new dataset using TensorBoard, resulting in an academic paper and a peer-conference presentation
- Trained ResNest and Deep Hough machine learning models for semantic segmentation and line detection, contributing to autonomous AI driven robot navigation

## EXTRACURRICULAR ACTIVITIES
**Epic Intentions Non-Profit Consulting** – Atlanta, GA                                    Sep 2023 - Present
*Senior Consultant*
- Lead team of 4 consultants to redesign website articles, propose a new website design, and enhance outreach
- Created a contact list of 870 members by utilizing Salesforce and Zoho Campaigns to increase email marketing capacity by 6 times, client database size by 4 times, and reduced future costs by 37%

**Georgia Tech Men's Water Polo** – Atlanta, GA                                            Aug 2023 - Present
*Team Member*
- Maintained a rigorous training schedule, balancing 2–3 weekly practices and independent weightlifting sessions with academic responsibilities through effective time management
- Worked with teammates during weekend tournaments, including out-of-state, regional, and national-level competitions, to ultimately win SEC championships

**E-NABLE Prosthetics** – Newport Beach, CA                                                Aug 2021 - May 2023
*Prosthetics Engineer*
- Designed, assembled, and fitted 3D-printed prosthetic arms for recipients locally and internationally
- Trained peers in 3D printing, prosthetic assembly, and website maintenance to support program growth
- Received the NYLC Service-Learning Excellence Award and secured $1,000 in funding to expand the initiative

**Boy Scouts of America** – Newport Beach, CA                                              Nov 2016 - Sep 2022
*Eagle Scout*
- Led the planning, design, and execution of an Eagle Scout project that mobilized 16 volunteers to build three community benches using recycled plastic lumber, totaling over 127 service hours
- Contributed to community service initiatives, facilitated meetings, and delegated duties during campouts

## PROJECTS
**Hack GT Winner: SpecTackles –** Atlanta, GA                                              Sep 2024
*Front-end Developer*
- Built an AR-controlled smart home application using Snapchat Lens Studio and augmented reality glasses; Placed 2nd at Hack GT hackathon among 479 participants
- Created UI elements using JavaScript to interface with a web server and control real-time smart home devices

**App Development: WanderSync –** Atlanta, GA                                              Aug 2024 - Dec 2024
*Head Full Stack Developer*
- Coordinated team of 5 students by using the Agile methodology and GitHub  to build a travel management app
- Leveraged Firebase, Android Studio, SOLID & Grasp principles, and MVVM architecture to deliver scalable and functional software

**GT WebDev: GroupOrder** – Atlanta, GA                                                Aug 2024 - Nov 2024
*Backend Developer*
- Developed backend software with team of 5 for online ordering tool, by using MongoDB and JavaScript to manage log-ins, account creation, and front-end queries

**Bain Consulting Competition –** Los Angeles, CA                                                May 2023
*Project Lead*
- Brainstormed ideas and conducted SWOT analysis to develop new product strategies for Alo Yoga
- Pitched a yoga accreditation service to Alo Yoga's CMO and Bain executives, focusing on market expansion

**DECA Business Solutions Project** – Anaheim, CA                                                Aug 2022 - Dec 2022
*Project Co-Lead*
- Completed business solutions project for local college counseling business by conducting market research and revamping marketing materials to improve business's performance
- Designed new website and expanded social media presence to improve SEO and increase engagement by 80%