Carter Tierney

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EDUCATION

Georgia State University, *B.S. CS / M.S. in CS with Privacy/Security*   GPA 3.76   Expected Spring 27
    Honors/Leadership: President of Barbell Club, Hackathon Winner, Graduate Assistantship (Top 15% of applicants)
    Relevant Courses: Sof Dev/Eng, ML, Algorithms/Data Structures, Database Systems, Data Science, Web/Mobile Dev

EXPERIENCE

Software Developer *Paulk Clinic* https://www.thepaulkclinic.com/   **Aug 2025 - Present**
- Led healthcare platform modernization using PHP/CSS, achieving **25%** surge in patient engagement and **25%** reduction in bounce rate.
- Redesigned site infrastructure with optimized WordPress plugins, boosting performance by **60%** and cutting page load time from **4.2s to 1.7s**.

Co-Founder *UrSim* [Github Link](#)   **Oct 2025 - Present**
- Engineered web app with multi-variable optimization and real-time data APIs, delivering accurate fantasy sports lineups with quant optimization.
- Collaborating with content creators and implementing marketing strategies to improve user experience, engagement, and platform growth.

Software Engineer Intern *Alpha Web Advisors*   **Oct 2024 - Aug 2025**
- Migrated **500+** property listings (20K+ records) to PostgreSQL with a normalized schema/35+ validation rules, ensuring **zero data loss.**
- Built automation tools for HOA reports with Python workflows, boosting data accuracy from **92% to 99.8%** and cutting query time **18x** (3.2s → 180ms), saving **15+** hours weekly.
- Delivered Power BI dashboards in **Agile** sprints, replacing Excel workflows and improving client efficiency/satisfaction.

Manager/Bartending Lead *Bartaco/Jon Taffer's Tavern*   **Sep 2020 - Present**
- Ranked **#1** bartender across 30+ locations (350 employees) by increasing premium sales through targeted promotions, winning the company-wide sales contest.
- Advanced to the youngest manager/bartender at **two 10+** year establishments, leading 10-person teams, and drove a **30%** sales increase within 4 months.

TECHNICAL SKILLS

Languages: Python, Java, C#/C++, JavaScript/TypeScript, SQL, PHP, HTML/CSS, Bash/Shell
Frameworks: ReactJS, NodeJS, ExpressJS, VueJS, Django, Spring Boot, FastAPI, Next.js, Tailwind CSS, Bootstrap
Tools & Infrastructure: Agile/Scrum, Git, Docker, CI/CD, AWS, Linux/Unix, REST APIs
Data & ML: PostgreSQL, PyTorch, Pandas, NumPy, ETL pipelines, Power BI, Tableau

PROJECTS

Winner Emory Hacks: VoiceVitals | *TypeScript/React, ML/DL, Firebase* **|** [Devpost Link](#)   **Nov 2025**
- Built FastAPI + PyTorch ML pipelines that analyze voice recordings, achieving **~65%** accuracy in detecting early dementia indicators.
- Engineered doctor/patient dashboards (React + Firebase) with secure audio streaming for clinical trial/data collection.
- Recognized as a hackathon-winning project for innovating voice-based health monitoring and telehealth for cognitive disabilities.

E-commerce Analytics Platform | *Python, MySQL, ML, Big Data* **|** [Github Link](#)   **Oct 2025**
- Developed analytics platform processing large-scale ecommerce datasets using big data technologies, implementing clustering algorithms for customer segmentation.
- Engineered data science pipelines with machine learning models, tracking user behavior via cookies, and delivering actionable insights.