

JAMES TABAKIAN

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PROFESSIONAL PROFILE

Senior computer science student with a strong foundation in **software development** and a passion for building efficient, reliable applications. Skilled in **full-stack development** and **object-oriented programming**, with experience spanning research, entrepreneurship, and collaborative projects. Actively involved in a **NASA-funded research project** and founder of a business generating over **\$70,000** in revenue. Currently seeking full-time **software engineering** opportunities to contribute to innovative teams and develop impactful technology solutions.

EDUCATION

Molinaroli College of Engineering and Computing, University of South Carolina

Columbia, SC

Bachelor of Computer Science

May 2026

Major: Computer Science

GPA: 3.5

Scholarships: Life Scholarship (\$7,500), Capstone Scholarship (\$2,000)

Relevant Coursework: Intro to Computer Architecture, Professional Issues in Computing and Engineering, Programming Language Structures, Computing in the Modern World, UNIX/Linux Fundamentals, Big Data Analytics, Artificial Intelligence, Foundations of Computation

PROGRAMMING KNOWLEDGE AND SKILLS

Languages: Java, Python, HTML, CSS, JavaScript, C#, C++, SQL, Prolog, Haskell, Assembly

Tools & Frameworks: Visual Studio, React, Unity, Windows Presentation Foundation (WPF)

Platforms: Linux, Windows

Other Skills: CAD design, 3D Printing

RELEVANT WORK EXPERIENCE

i-Maps Research Lab

Staff Researcher | Columbia, SC | September 2023 to Present

- Developed software for **ultrasonic wave analysis** used in nondestructive material evaluation as part of a research initiative funded by **NASA** at the University of South Carolina.
- Rewrote a **6,000+ line MATLAB** application into a modern, multi-threaded **C#** implementation, achieving a **10× reduction in computation time**.
- Designed and implemented a responsive **WPF-based front-end UI**, enabling real-time graph visualization, interactive controls, and a significantly improved user experience.
- Contributed to weekly research meetings by presenting development progress, discussing findings, and ensuring alignment with overall project milestones.

PROJECTS

Columbia Custom PCs LLC

Founder | Columbia, SC | August 2024 to Present

- Founded and operate a registered business focused on designing, assembling, and refurbishing custom gaming PCs.
- Generated over **\$70,000 in revenue** through the assembly and sale of more than **120 fully customized systems**, each tailored to specific performance and budget requirements.
- Delivered personalized consultations, system optimization, hardware upgrades, and ongoing post-sale support to ensure long-term satisfaction and reliability for every customer.
- Created and maintained comprehensive records for each build, detailing components used, individual part costs, system benchmarks, troubleshooting logs, and client feedback.
- Developed a **full-stack web application (React frontend, SQL backend)** to manage commission requests, capture client preferences, and streamline order tracking, reducing manual processes and improving client experience.

EXTRACURRICULARS

- Competed in more than 60 rated chess tournaments. Won several events and tied for **first place** in the S.C. Scholastic State Chess Championship.
- Member of the **3D Assembly Team** at East Cooper Center for Advanced Studies, charged with the planning, building, and maintenance of multiple **3D printer kits** for scholastic use and recognized for problem-solving and troubleshooting skills.