Mason B. Anton

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EDUCATION

Vanderbilt University, School of Engineering   **Nashville, TN**
Bachelor of Science in Computer Science, Bachelor of Science in Applied Math, Minor in Physics   May 2027
Cornelius Vanderbilt Scholar - Awarded with a 4-year full tuition scholarship and $7,000 stipend for summer experience
• GPA: 3.97/4.0 | Dean's List
• Coursework: Computer Networks, Operating Systems, Software Engineering, Software Design Patterns, Programming Languages, Algorithms, Linear Algebra, Differential Equations, Multivariate Statistics, Electrodynamics, Modern and Quantum Physics

PROFESSIONAL EXPERIENCE

Braze   **New York, NY**
Incoming Summer 2026 Software Engineering Intern   June 2026 - August 2026

Radial Theory   **New York, NY**
Software Engineering Intern   May 2025 - August 2025
• Developed and shipped full-stack features using Node (Express), React, and MySQL for a hardware-integrated parking platform
• Owned and maintained the carousel simulation API, improving test reliability and accelerating hardware development cycles
• Built TypeScript remote device control service with SSH, automating hardware operations via the system API and AWS

Vanderbilt Fusion Project   **Nashville, TN**
Chief Executive Officer   November 2024 - December 2025
• Orchestrated engineering and testing efforts for the only undergraduate group in the country building a nuclear fusion reactor
• Performed outreach to industry leading companies, executives, and professors for sponsorship opportunities and support
• Oversaw efforts to generate and sustain plasma for the first time, achieving continuous confinement for over three minutes
Software and Computational Physics Team Leader   September 2023 - December 2025
• Develop a control software integrating reactor hardware systems into a comprehensive interface with real-time data visualization
• Lead team of 10 in writing neutronics code to create preliminary simulations of IEC fusion for safety and optimization efforts

Camp Ramaquois   **Pomona, NY**
Head Counselor   June 2021 - August 2024
• Mentored and supervised groups of 12-20 boys through summer camp, ensuring their safety and positive learning experiences
• Collaborated creatively with coworkers to design games and coach sports teams, winning league softball championship twice

PROJECTS

Mise En Place | *TypeScript (React, Node, Express), Vercel, Railway, Supabase*
• Semester-long project culminating in a full-stack cooking copilot that creates minute-by-minute schedules from multiple recipes

Vanderbilt Fusion Project Neutronics Simulations | *Python (NumPy), OpenMC*
• Neutron-transport Monte Carlo simulations within our reactor geometry to quantify tritium breeding and neutron flux

Video Game Midi Controller | *Python (PyGame)*
• Software that maps game controller inputs to MIDI signals for musical performance, working to extend to all controller types

LEADERSHIP

Vanderbilt American Nuclear Society   **Nashville, TN**
Founder/President   November 2024 - November 2025
• Lead the new Vanderbilt chapter of ANS to provide a collaborative makerspace for students interested in the nuclear industry
• Host events and initiatives for the Vanderbilt community to raise awareness for nuclear energy and teach relevant technical skills

Sigma Nu Sigma Chapter   **Nashville, TN**
President   November 2024 - November 2025
• Provide strategic leadership to engage 80+ members of fraternity in philanthropic, academic, and social efforts
• Manage budget exceeding $80,000 per semester, balancing financial aid expansion with operational expenses and event funding

SKILLS AND INTERESTS

Languages: Python, C/C++, Java, JavaScript, TypeScript, SQL, MATLAB, HTML, CSS. Working proficiency in Spanish.
Tools/Frameworks: React, Node/Express, Git, GitHub/Gitlab, RESTful APIs, Docker, Linux, OpenMC, Agile Development.
Interests: Powerlifting, Backpacking, Guitar, Thrifting, Good Will Hunting, The New England Patriots, Jazz, DJing.