

Caleb Wang

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

May 2029

Bachelor of Science in Computer Science

Relevant Coursework: Intro to Discrete Math, Linear Algebra with Abstract Vector Spaces, Data Structures and Algorithms

Activities: Yellow Jacket Space Program, Silicon Jackets, Undergraduate Research

TECHNICAL SKILLS

Technical: Python, JavaScript, CSS, HTML, React, Flask, FastAPI, Java, RaspberryPI, React Native, Expo, OnShape

EXPERIENCE

Fralin Biomedical Research Institute at VTC, Roanoke, Virginia

August 2026

Software Intern

- Led mobile development for *Surtin*, a decentralized biomedical data-sharing platform, ensuring consistent client-side performance across devices and coordinating with UI/UX teams.
- Integrated Ethereum Sepolia workflows for asset publishing, metadata retrieval, and integrity verification while debugging Node.js, Elasticsearch, IPFS, and Ethereum RPC infrastructure.

The Jonist Company, Remote

August 2025

Software Intern

- Compiled feature and bug reports while working on a medical data tracking and management application.
- Worked on evaluating custom agent question and answering using RAG.

PROGRAMMING PROJECTS

DrugSift, Personal Research Project

January 2025

Topic: Finding drug repurposing candidates using NLP processing on medical literature.

- Queried PubMed API to scrape literature of key drug and disease terms and placed embeddings into vector space to discover novel disease drug connections semantically. Created a web application using Flask.

Trowable.org, Submission for the 2025 Congressional App Challenge

October 2025

- Developed a full-stack donation-driven e-commerce site using Next.JS with authentication and Cloudflare's R2 buckets for storage.
- Won second place in VA's ninth district and was featured in Congressman Morgan Griffith's newsletter.

VisorAI, Research Project in Collaboration with Altec Industries

January 2026

Topic: Computer Vision enhanced Personal Protective Equipment (PPE) monitoring in industrial workplaces.

- Created a low-cost and open-sourced edge solution for PPE compliance using Yolo object detection models and hardware-accelerated RaspberryPIs.
- Designed, tested, and presented project pipeline and got industry feedback on system usability.

LEADERSHIP & COMMUNITY ENGAGEMENT

Roanoke, Virginia

August 2022 – May 2026

Eagle Scout (2025) – Troop 221B

- Served as Den Chief and Patrol Leader in a troop of over 40 active scouts.
- Participated in over 150 hours of service and conservation work.
- Planned and constructed an 8'x16' storage shed for local Special Olympics equipment storage as Eagle Scout project.

Instructor – Mathnasium of Roanoke

June 2023 – August 2026

- Provided tailored math instruction to elementary, middle, and high school students. Appeared as mascot to local community events at various schools and organizations.

Founder and President – Hidden Valley Hack Club

August 2023 – May 2026

- Partnered with an international non-profit to organize weekly club meetings centered around high schoolers creating personal projects.
- Attended and organized multiple Hackathons.

Silver-level Tutor – Schoolhouse.world

January 2025 – May 2026

- Among the top 10% of online peer tutors worldwide.
- Hosted four Reading and Writing SAT bootcamps.
- Certified in over ten subjects with over 50 total hours volunteered.

ADDITIONAL SKILLS AND INTERESTS

Languages: English, Shanghai Dialect, Latin

Interests: Unified Sports, Racket Sports, Peer Tutoring, Weightlifting, Calisthenics