

Walsh Crowley

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PROFESSIONAL SUMMARY

Undergraduate student at Georgia Tech pursuing dual B.S. degrees in Biomedical Engineering and Spanish, with interests in biotechnology, global healthcare, and cross-cultural communication. Experienced and prepared for both laboratory and business environments, with a strong foundation in scientific research, technical writing, leadership, mathematics, and collaboration.

EDUCATION

Georgia Institute of Technology – Atlanta, Georgia **GPA: 3.83** **Graduates May 2028**

Bachelor of Science in Biomedical Engineering & Applied Languages and Intercultural Studies (Spanish)

- Relevant coursework in Medical Device Design, Spanish for Business, Biology, and Organic Chemistry.
- Honors: International Baccalaureate Diploma Recipient, 2024-2025 Academic Year Dean's List Member.

RESEARCH

Georgia Institute of Technology

Atlanta, Georgia

Undergraduate Research Project – Microbiome Mapping of Campus

January 2025 – May 2025

- Conducted field research of microbial diversity and soil conditions across the Georgia Tech campus using swab sampling, culturing, and sequencing methods.
- Analyzed microbial population statistics and environmental trends to evaluate potential ecological and pollution implications.
- Synthesized and presented findings in a formal report, delivered to faculty and academic peers.

COVID-19 Envelope Protein Research

August 2024 – December 2024

- Spearheaded research on SARS-CoV-2 Envelope (E) protein, with a focus on amino acid sequence analysis to elucidate the impact of C-terminal variations on viral pathogenesis.
- Engineered targeted mutations by substituting amino acid chains with homologous residues from genetically varying coronaviruses, with diverse pathogenic profiles, to assess the C-terminal's critical role in regulating viral infectivity and virulence.

PROFESSIONAL EXPERIENCE

NSI Networking, Inc.

Sumner, Washington

Warehouse and Office Employee

June 2020 – Present

International e-commerce company involved with business-to-business transactions of end-of-life technology and consumer electronics.

- Prepared FBA (Fulfillment by Amazon) shipments, processing up to 1,000 units per shipment.
- Managed and optimized assembly line operations for packaging, scanning, and labelling, reducing turnaround times and increasing warehouse efficiency.
- Collaborated with coworkers to manage budgets, ensure accurate financial tracking, checkbook balancing, and purchase history verification.
- Performed regular financial reconciliations, streamlining processes to reduce errors and improve reporting efficiency.

MultiCare Health System**Tacoma, Washington*****MultiCare Academy for Students in Healthcare******July 2023 – August 2023***

- Completed internship experience, gaining hands-on experience in clinical settings. Shadowed radiologists and oncologists, observing diagnostic imagery, patient care and diagnosis, and treatment planning, while developing a proper understanding of healthcare careers
- Gained foundational experience in patient care by participating and assisting with routine clinical procedures, including physical exams, imaging diagnostics, and treatment planning in radiology and oncology settings.

Lake Jane Estates Inc.**Bonney Lake, Washington*****Lead Lifeguard and Head Swim Instructor******May 2020 – August 2024***

- Monitored pool safety and maintained water quality. Managed bathroom cleanliness and operated a cash register.
- Responsible for coworker performance and competency. Organized and facilitated employee training sessions of 15-20 employees.
- Instructed children aged 2-19 in swimming, covering foundational water comfort to advanced competitive mechanics. Developed lesson plans and taught class sizes ranging from 1-13 students.

LEADERSHIP

Tau Kappa Epsilon – Beta Pi Chapter**Georgia Institute of Technology*****Treasurer******April 2025 – Present***

- Overseeing the finances of an 80-member fraternity chapter with a \$900,000 annual budget. Responsible for budgeting, dues collection, financial reporting, and expense oversight to ensure long-term sustainability.
- Collaboration with executive and national board members to align financial strategy with chapter goals, maintain professional relations, and lead accountability initiatives to bolster chapter success.

Fundraising Chair***November 2024 – April 2025***

- Organized and developed monthly fundraising campaigns to support house improvements and gradual upgrades, fostering a strong sense of brotherhood. Executed regular fundraisers, generating upwards of \$1,000 per event, directly enhancing chapter resources and morale.

INTERNATIONAL EXPOSURE

Study Abroad in Buenos Aires, Argentina**Georgia Institute of Technology*****Language for Business and Technology Program******May – June 2025***

- Immersed in Argentine culture and daily life while studying regional history, contemporary Latin American issues, and the use of the Spanish language in the workplace.
- Strengthened cross-cultural understanding and communication skills through homestay living and meetings with business and government officials from Buenos Aires. Researched the Argentine healthcare systems, as well as the economic and cultural effects of the fake textile industry.

SKILLS & SPECIAL ABILITIES

Technical: Bioinformatic Software Experience, Adobe Video Editing, Protein Modeling**Business Tools:** Microsoft Office Proficiency, QuickBooks Experience**Languages:** English - Fluent, Spanish (secondary) - Fluent**Certifications:** Georgia Institute of Technology Lab Certified, CPR and First Aid Certified