

Francisco Alvarado Jr.

Stamps President's Scholar | Tech Promise Scholar | Gates Cohort VIII Scholar | HSF Scholar
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EDUCATION

Georgia Institute of Technology (GT) , Atlanta, GA <i>Bachelor of Science in Computer Science</i> ; GPA: 3.6	May 2028
Newton College and Career Academy (NCCA) Covington, GA <i>Valedictorian 1/353</i> ; Cumulative GPA: 103.4	May 2025

PROJECTS

Butler Bot , <i>Autonomous Robotics and Design Lead</i> , Statesboro, GA	June 2024 – July 2024
<ul style="list-style-type: none">Implemented computer vision algorithms in Python using OpenCV for autonomous navigation.Led software integration for a 15-member team building a robot from recycled materials.Contributed to system design, testing, and iterative improvements.	
AI Tool Detection System , <i>Engineering and Computer Vision (CV)</i> , Athens, GA	June 2023 – July 2023
<ul style="list-style-type: none">Developed Python algorithms to identify tools in workplace environments, improving safety and operational accuracy.Collaborated with graduate researchers and presented findings to stakeholders, supporting departmental decision-making.Strengthened software development fundamentals through iterative testing, debugging, and performance evaluation.	
Skin Burn CV Detection , <i>Primary Researcher</i> , Covington, GA	June 2023 – July 2023
<ul style="list-style-type: none">Built and trained a YOLOv5 model to classify burn severity with 91% test accuracy.Executed full project lifecycle: dataset preprocessing, augmentation, model training, evaluation, and reporting.Explored AI applications in healthcare, demonstrating ability to manage an AI project from concept to delivery.	

WORK EXPERIENCE

Chick Fil-A (CFA) , <i>Certified Trainer</i> , Covington, GA	September 2024 - August 2025
<ul style="list-style-type: none">Leveraged strong communication skills to engage with customers, fostering positive interactions that built rapport while increasing speed of service by 10% and contributing to a productive team environment.	
University of Georgia , <i>Engineering Intern</i> , Athens, GA	June 2023 – July 2023
<ul style="list-style-type: none">Programmed algorithms for tool detection with 99% accuracy; collaborated with graduate researchers and presented solutions to faculty mentors resulting in an increase of funding to the Innovation Factory lab.	
Office of National Drug Control and Prevention , <i>Youth Prevention Champion</i> , United States	October 2025– Present
<ul style="list-style-type: none">Collaborate with government officials and data analysts to provide youth perspective and input on prevention campaigns, helping shape strategies aimed at driving positive change in local communities.	

LEADERSHIP

State Vice President, Georgia Technology Student Association (GATSA)	March 2024 – March 2025
<ul style="list-style-type: none">Co-led a team of 7 officers leading 21,000 members, championed STEM education, organized conferences, networked nationwide, and advocated to legislators; facilitated monthly meetings with a student committee to expedite GATSA's program of work	
President, NCCA S.T.E.M. Student Council	September 2023 – May 2025
<ul style="list-style-type: none">Along with 5 others, hosted bi-weekly meetings to plan various school events. Generated a 200 follower increase due to the council's social media campaign efforts	
President, STEM Extension Project (S.E.P.)	October 2024 – May 2025
<ul style="list-style-type: none">Led an officer team that taught complex STEM concepts through various science or engineering labs, by rolling out on a remodeled bus to K-8 schools.	

SKILLS

Technical: Python (intermediate), Java (intermediate), Computer Vision (ML), Git/GitHub, SQL (beginner), CAD (excellent), Microsoft Excel/Word/Office (excellent), Cloud Computing (AWS/GCP – beginner), JavaScript (beginner), C# (beginner)

Soft Skills: Communication, Leadership, Collaboration, Public Speaking, Data Analysis, Innovation, Rapid Prototyping

Languages: Spanish (native), English (native)

INTERESTS

Interests: AI/ML, Software Development, Innovation, Product Management, Startups, Community Service, Science-Based Lifting