

# 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 May 2028  
*Bachelor of Science in Computer Science; GPA: 3.6*

**Newton College and Career Academy (NCCA)** Covington, GA May 2025  
*Valedictorian 1/353; Cumulative GPA: 103.4*

## PROJECTS

**Butler Bot**, *Autonomous Robotics and Design Lead*, Statesboro, GA June 2024 – July 2024

- 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**, *Engineering and Computer Vision (CV)*, Athens, GA June 2023 – July 2023

- 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**, *Primary Researcher*, Covington, GA June 2023 – July 2023

- 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)**, *Certified Trainer*, Covington, GA September 2024 - August 2025

- 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**, *Engineering Intern*, Athens, GA June 2023 – July 2023

- 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**, *Youth Prevention Champion*, United States October 2025– Present

- 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

- 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

- 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

- 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