

# Juan Alvarado

[juan-alvarado.com](http://juan-alvarado.com) | <https://www.linkedin.com/in/Juan-alvarado305> | <https://github.com/JuanAlvarado305> | [jalva445@fiu.edu](mailto:jalva445@fiu.edu) | Tele: (305)-510-9193

## EDUCATION

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### Bachelor's Degree in Computer Science

Florida International University | Miami, Florida

**Graduated: Spring 2026**

GPA: 3.65

**Relevant Coursework:** Programming 1, Programming 2, Software Engineering, Data Structures, Discrete Math

**Associations & Clubs:** Color Stack, Code Path, Break Though Tech, INIT FIU, SHPE, SACNAS, AI FIU Club

## SKILLS

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- **Programming Languages:** Python, C, Java, JavaScript, HTML, CSS, SQL
- **Frameworks:** Flask, Fast API, Spring Boot, React, Node.js, Next.js, PyTorch, TensorFlow
- **Tools:** VS Code, Git, GitHub, Linux, Terminal, Streamlit, Runpod, Latex, Big Query, Google Cloud Shell
- **Additional Education:** Code Path WEB101 Course, Code Path TIP101, Break Though Tech workshops

## WORK EXPERIENCE

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### *NSF REU Undergrad Researcher*

**May 2025 – October 2025**

University Of Texas at Dallas | Dallas, Texas

- Co-author a research paper with doctoral candidates about utilizing visual language models for NLP tasks
- Taught by engineers from Lockheed Martin and Nvidia, about software safety and standards, including system-level hazard analysis, and role of LLMs within broader AI taxonomy

### *GIS Lab Software Intern*

**May 2025 Sprinternship**

City Of Coral Gables | Miami, Florida

- Assisted in development of a mobile application and API pipeline as part of **5-member team** for 3 weeks as part of the Break Though Tech SprinternShip Program
- **Reduced service ticket generation time by 35%** by delivering an orchestration engine using Fast API, integrating Flutter frontend and FreshWorks
- Improved delivery of city services by implementing multilingual audio transcription using OpenAI Whisper

### *Google Tech Exchange Scholar*

**January 2025 – May 2025**

Google | Mountain View, California

- Mentored by Google panelists & earned university credit for courses **taught by Google Software Engineers**
- Completed courses in Data Structures with Gen AI, Careers in Tech and Software Development
- Finished semester long virtual academic program for HBCU/HSI students focused on Computer Science

## PROJECTS

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### **Workout Activity App**

**Website:** <https://tinyurl.com/Workout-Web-Application>

- Collaborated within a **4-member team** during the **Google Tech Exchange** to engineer a full-stack web application using Streamlit and Google Cloud tools such as Big Query for SQL database functionality

### **StudyBudy Website**

**Website:** <https://devpost.com/software/studybudy-gsc92f>

- Lead a **4-member team** to develop a full stack project during the 2024 ShellHacks Hackathon

## LEADERSHIP EXPERIENCE

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### **Artificial Intelligence @ FIU Student Club**

**September 2024 – December 2025**

#### *Social Media Manager*

- Manage the club's social media presence across multiple platforms by creating engaging content, tracking engagement metrics, and collaborating with other officers to promote events and initiatives to club members