

Ananya Pagadala

📞 469-426-9880 📍 San Jose, CA ✉ apagadala@scu.edu 📺 /ananyapg 🌐 /ananyapags 🔗 pags.dev

Education

Santa Clara University

Sep 2020 - Jun 2025

DUAL DEGREE: M.S. in **Computer Science and Engineering** | B.S. in **Computer Science**

- **Spanish Language** minor and **Mathematics** minor
- Critical Thinking and Writing 1 & Critical Thinking and Writing 2 Teaching Assistant
- **Research:** Exposing and Fixing Public Safety AI — A machine-learning study that aims to uncover and improve the ineffectiveness of Public Safety Facial Recognition algorithms on POCs in the U.S.
- *Relevant Coursework:* Intro to Computer Science, Object Oriented Programming, Data Structures, Theory of Automata, Algorithms, Embedded Systems, Digital Logic, Graph Theory, Cryptography, Cyber Security

Experience

Research Engineer Intern, NSF REU for Women in Machine Learning-based Cybersecurity

Jun 2023 - Present

- Developed new machine learning models with **Python**, **TensorFlow**, and **Pandas** for unknown malware detection
- Performed data ingestion, pre-processing, and FE on the Malicia dataset's **50+ malware families**
- Generated synthetic malware with **S.M.O.T.E** and **ADASYN** to mediate under-sampling in imbalanced datasets
- Validated generated malware using **Deep Learning** and **RNN**, developing a new ML model with **98% accuracy**

Miller Center Fellow, SuitUp

Mar 2023 - Present

- Selected as **1 of 16** students awarded the 2023 Miller Center Lewis Family Fellowship and Scholarship
- Developed a **research-driven model** to inform strategic decision-making for departmental scaling at SuitUp
- Streamlined CRM in **Salesforce** through **real-time data** organization for a **12% reduction** in working capital

President, ACM-W (Association for Computing Machinery - Women's Chapter)

May 2022 - Jun 2023

- Led **4 teams** of **2-5 developers** to build projects that support student growth and success at SCU
- Promoted tech literacy through 8 workshops, 2 summits and 4 Hackathons for audiences across the Bay Area
- Co-directed Hack for Humanity, Santa Clara University's largest student-run Hackathon with **400+ attendees**
- Supervised **12 developers** to build dynamic registration and applicant management systems for **500+ users**

Computer Science Instructor, Juni Learning

Dec 2020 - Mar 2023

- Taught **45+ clients Python** (Machine Learning) and **C++** curriculum to achieve long term goals
- Customized tutoring and instructional approaches by writing tailored lesson plans with **200+ unique projects**
- Incorporated clients strengths and weaknesses into sessions, maintaining a log of growth with **1000+ entries**

Projects

List Your House (JavaScript, React, Firebase 9, Google Geocode API, Google OAuth) 🔗

- An **end-to-end web app** that allows users to create, search, and manage simulated real estate listings
- Integrated authentication to provide **single sign-on**, **tiered permission levels**, and an **admin console**

Trader Joe's Pickup (Figma, JavaScript, React, React Router) 🔗

- An **end-to-end web app** that provides grocery pick-up services to Trader Joe's locations in the Bay Area
- Worked in an **agile environment** over 10+ weeks, using cross-collaboration tools including Github and Trello

Technical Skills

Languages: Python (TensorFlow, Flask, and PyGame), C++, Git, JavaScript, HTML/CSS, Rust, Swift

Developer Tools: AWS, GCP, Flutter, Firebase, Figma, React JS/Native, VS Code, Mac, Windows, Linux

Awards

- Publication @EAI Intetain 2020 - One of 10 posters selected to present "Fixing AI for Public Safety"
- WON: Most Interdisciplinary Award at Hack For Humanity 2021: Devpost: locals-n9r2u3
- WON: Fourth place at Bronco CTF (Capture The Flag) in Santa Clara, CA