SAHANA GANAPATHY

832-599-1970 | sahanagana@utexas.edu

Houston, TX | http://www.linkedin.com/in/sahana-ganapathy | https://sahanagana.github.io

EDUCATION

The University of Texas at Austin, Austin, TX   May 2026

Bachelor of Science, Computer Science

GPA: 3.64

Relevant Coursework: Operating Systems, Computer Architecture, Data Structures and Algorithms, Statistics, Linear Algebra, Software Engineering

EXPERIENCE

APP DEVELOPER INTERN, Austin, TX   June 2024 - August 2024

University Federal Credit Union

- Developed a web application to automate WSUD form intake, utilizing JavaScript, Django, and Microsoft SQL
- Integrated DocuSign's RestFUL API to digitize and streamline signature collection
- Tested for OWASP top 10 vulnerabilities such as cross-site scripting and broken access control

CODING INSTRUCTOR, Pearland, TX   June 2022 - August 2023

Code Ninjas

- Wrote and taught course curriculum aimed at 4-16 year olds and centered around programming fundamentals
- Helped install and configure necessary software, fixed issues/bugs when needed

PROJECTS

- **AIR QUALITY DRONE:** Modified a drone to gather environmental data using Arduino hardware and C++.
- **MINIMAL OPERATING SYSTEM:** Designed and implemented a minimal operating system in C.
- **MUSIC GENERATOR:** Used prompt engineering to create an application that generates music from text.
- **CLOUD SCHEDULING:** Modeled the energy consumption of an L2 cache system using a Recurrent Neural Network and Error Injection via the Monte Carlo method.
- **ECLIPSE-JKUBE OPEN SOURCE CONTRIBUTOR**: Identified and resolved unused code in the Java codebase, improving application performance

LEADERSHIP & COMMUNITY INVOLVEMENT

ENGINEERING LEAD, HISTORIAN Austin, TX   January 2023 - Present

Engineering and Computational Learning of Artificial Intelligence in Robotics (ECLAIR)

- Manages and leads a team focused on designing and implementing machine learning solutions to real world problems
- Fine-tuned a language model (Distil GPT) to identify emotions in song lyrics using NumPy/TensorFlow, utilizing Jupyter notebooks

LOGISTICS DIRECTOR Austin, TX   January 2023 - Present

Information and Systems Security Society (ISSS)

- Organizes company speaker talks, CTFs, and other cybersecurity related events for 100+ attendees
- Oversaw financial operations and strategically allocated budgets

TEAM MEMBER Austin, TX   January 2024 - Present

Hash Association of Student Hackers (HASH)

- Represent UT internationally at the collegiate level cyber defense competition
- Configure and secures infrastructure such as domain controllers, Palo Alto/Cisco firewalls, and LDAP tables
- Utilizes skills such as network and packet analysis, firewall analysis, Wireshark, and Zeek

HONORS AND AWARDS

- **CalPoly RvB Competition** - 1st place
- **Sandia National Labs TracerFIRE 12** - 1st place
- **National Cyber Scholarship Foundation** - Semifinalist
- **Congressional App Challenge** - 1st Place TX-14
- **Presidential Service Award -** Bronze

ADDITIONAL SKILLS

Technical /Computer Skills: Java, Python, HTML, CSS, C, Git, JavaScript, C++, Bash, Linux, Docker, AWS, Devops, React
Languages: Fluent Tamil, Intermediate Spanish