Saketh Reddy

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor's of Science in Computer Science

Aug. 2023 - (Exp) Dec. 2026

Stanford University

Palo Alto, CA

Charlotte, NC

Summer Semester: Technology Entrepreneurship (ENGR145S) and Visual Thinking (ME101) Jun. 2021 - Aug. 2021

EXPERIENCE

Software Engineer Intern

June 2023 - August 2023

TIAA

 $Cybersecurity\ Application\ Developer$

• Developed modular chatbot framework leveraging NLU to answer domain-specific questions

• Contributed 5k+ lines integrating interface and API handlers into established Angular/ ASP.NET codebase

Project Manager (2023 TIAA Intern Hacakthon)

- Led team of 10 interns with diverse backgrounds and skillsets to develop a Generative AI-powered solution addressing longstanding company pain points
- Won 1st Place Prize and opportunity to present solution onstage to TIAA's CTO during the T3Hack Conference

Cyber Security Research Intern

February 2023 – May 2023

SEFCOM Lab @ Arizona State University

Tempe, AZ

- Developed Retroperm, a modular rule-based static analysis library capable of detecting privacy violations within compiled binaries
- Bundled and published library to PyPI, enabling it to be efficiently leveraged in future security research applications
- Created and presented separate technical and nontechnical presentations at conclusion of project, showcasing work to fellow lab members and high school peers/ faculty respectively
- Learned about and engaged in the scientific research process, with an emphasis on application security research

IoT Embedded Systems Software Engineer Intern

June 2019 – August 2021

Discount Tire

Scottsdale, AZ

- Designed IoT devices with ESP32s and sensors to automate vehicle tracking in Discount Tire service bays, integrating seamlessly with SAP HANA for efficient data storage and analysis, optimizing bay performance
- Gained expertise in Software Engineering, Electronics, 3D modeling, and additive manufacturing for mass production while enhancing skills in rapid prototyping and effective communication during project tenure

PROJECTS

Retroperm | Python, angr. Flask, x86, Gut

February 2023 – May 2023

- Platform-agnostic retroactive effective permission generation system for compiled executable programs
- Leveraged the angr static binary analysis library in order to explore executable functionality inside a sandbox
- Implemented Reaching Definition Analysis in order to validate syscall arguments against modular blacklist
- github.com/SpiritSeal/retroperm

bubblemap.app | React, Typescript, Firebase, Git

September 2021 – October 2022

- Led team over 12 months to design, iterate, and develop novel fullstack AI-copiloted mind mapping web app
- Won Congressional App Challenge (1st place District AZ06)
- github.com/SpiritSeal/bubblemap

TECHNICAL SKILLS AND AWARDS

Languages: Python, Firebase, JavaScript/ TypeScript, HTML/CSS, C++, C#

Frameworks: React, Angular, ASP.NET, Flask, Material-UI

Developer Tools: Git, Docker, Firebase, PyPI, VS Code, Visual Studio, PyCharm, Webstorm

Libraries: langchain, angr, z3, NumPy, Matplotlib

Awards: Eagle Scout, Presidential Volunteer Service Award Gold, National Cyber Scholar with Honors, CAC Winner