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Aadhithya Kannan

Computer Science & Physics Undergraduate: University of Texas at Austin

Education:

University of Texas at Austin - Bachelor of Computer Science
GPA 3.91 / 4.00

May 2023

Work Experience:

TREL (<https://texasrocketlab.com/>) - Technical Engineer

2020

I am currently helping build Halcyon, which is an advanced bipropellant rocket competing in the Base 11 challenge to reach the Karman Line. Although much of my work is ITAR regulated, I can say that, as a GNC (Guidance, Navigation, Control) member, I aided in rocket positioning and avionics software.

ongoing

Mistnet (<https://www.mistnet.ai/>) - Software Engineering Intern

Mistnet is a stealth startup specializing in machine learning based threat detection. I was given the task of reducing false positives through operating system and network level monitoring. I also aided in real time big data analysis and threat detection.

2018

(~700 hrs)

Infiswift (<https://infiswift.tech/>) - Software Development Intern

Infiswift specializes in using AI to maximize the performance of IOT devices. I specifically worked on using bluetooth to accurately trilaterate devices indoors where GPS doesn't work. This project heavily focused on statistical data analysis, noise reduction, and MQTT. I was able to bring positioning accuracy to the 1 meter realm.

2020

(~480 hrs)

Sandbox Systems LLC - Co-Founder & CEO

We developed a cloud based IDE to allow developers to code anywhere, at any time, with any laptop or smart device. Although in charge of some business, I mainly lead development. I was also in charge of maintaining the server, optimizing the site, and handling cybersecurity issues. We got 10K seed funding from the Sputnik Accelerator.

2017 - 2020

(~800 hrs)

Projects:

LocoEats (PostgreSQL / Python) - Website to identify and display local restaurants.

SoloStarr (Python / GSQL) - TikTok style social media app's recommendation algo.

Logger (Java) - Can decrypt and upload saved Chrome passwords in plaintext.

Venom (Python) - Attempted to regress the AES 128 SBOX with neural networks.

Kolasi (C) - Reverse TCP shell with persistence and process injection capabilities.

Pintos (C) - Expanded OS to support: virtual memory, priority scheduling, multithreaded filesystem.

Hospital Communications (RTL-SDR) - Decrypted hospital/EMS pinger frequencies.

Artemis (Octave) - Neural network attempts to identify indicators of violent behavior.

ACC (Javascript) - Vulnerability allowed admission into college before registration.

Raspberry Pi Server Cluster (Kubernetes / Docker) - Pools computing resources.

Logos (NASM / C) - Built a low level OS with screen, keyboard, and other drivers.



Honors / Awards:

DECA Finance ICDC [Highest Test in State, Excellence in Role Play]

2015 - 2018

PicoCTF [top 4%]

2018

AP Capstone Diploma & AP Scholar w/ Distinction

2019

2019

Relevant Classes: CS314 Data Structures, CS311 Discrete Math, CS309 Quantum Computing FRI, PHY315 Waves and Optics, M427L Vector Calculus, M340L Linear Algebra, PHY336K Classical Dynamics, CS439 Operating Systems, CS439 Computer Architecture