

# AARYA ATLURI

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## EDUCATION

### The University of Texas at Austin

B.Sc. Computer Engineering | Software Engineering Track

Austin, TX

Jan 2025

## EXPERIENCE

### Google

Incoming Software Engineer Intern

Sunnyvale, CA

Jun 2023 - Sep 2023

- Google Argos - YouTube Video Accelerator VCU
- Expected to work on C++ optimizations for userspace libraries and hardware modeling for chip software simulation

### Snap inc.

Incoming Software Engineer Intern

Palo Alto, CA

Apr 2023 - Jun 2023

- Engagement Revenue - Ads Ranking Algorithms
- Expected to work on future model design for ad auction and creating new analysis workflow to pinpoint features causing model scoring issues

### Nvidia

Software Engineer Intern

Santa Clara, CA

May 2022 - Aug 2022

- Overhauled Android OS build targets for NVIDIA Shield TV on a generic Tegra chipset for use by **50+ engineers**
- Engineered an **HAL pipeline** to inject input events from host machine TCP Socket to android device for use within NVIDIA Omniverse development
- Designed and deployed dual-display and multi-zone audio features for NvGamecast and NvAndroidOSC system applications in Android Automotive OS and AndroidTV for **900k+** users
- Integrated video streaming and playback services for AAOS through enhancements in the android application frameworks and core libraries

### AMD

Embedded Software Engineer Intern

Santa Clara, CA

Aug 2021 - Dec 2021

- Developed **OpenBMC** firmware releases for customer reference boards increasing firmware usage by **12%** and driving an **18%** increase in efficiency for AMD data centers supported by Onyx workstation machines
- Prepared new features for BMC firmware and utilized cross-compilers to port OpenBMC for Linux users
- Reduced server-side memory usage by leveraging modern APIs and libraries to overhaul legacy components
- Programmed a firmware update and BIOS verification software with **Redfish API** deployed to **85%** of Xilinx servers

### Sock Club

Software Engineer Intern

Austin, TX

May 2021 - Aug 2021

- Engineered a **Natural Language Processing** model using **OpenAI's GPT-3 API** to generate SEO Content to gain traction through Google's backlink ranking system resulting in an increase of **~3700 clicks** per day
- Integrated a streamlined product design tool API utilized by the operations team to automate design uploads to **PostgreSQL**, saving designers **~4,500 hours** a year
- Maintained and developed Sock Club's **Ruby on Rails** website infrastructure and overhauled internal order processing and tooling page shortening overall turnaround time to manufacturers by **15%**

### NASA

Software Engineer Intern

Houston, TX

May 2020 - Aug 2020

- Collaborated with Masters students and engineers to research and develop an interruptible **WFD(Wave Frontier Detector) Algorithm** for use in autonomous semantic mapping and navigation
- Implemented a calibration algorithm for a network of **Azure Kinect Cameras** with utility in motion prediction

## COMPETITIVE PROGRAMMING

</> **Competitive Programming** | Codeforces Rating: ~1750, Leetcode Contest Rating: ~1950

- Solved over 600 problems on Codeforces/Leetcode on the topics of Computer Science and Mathematics.

## RELEVANT SKILLS

### Languages:

Python | C/C++ | Java | Ruby | JavaScript | Assembly

### Frameworks/Technologies:

Flask | Django | React | MongoDB | AWS | Firebase | Azure | Heroku | Kubernetes | Git

### Relevant Coursework:

Algorithms | Software Design Lab | Operating Systems(In-Progress) | Embedded Systems  
Discrete Math | Linear Algebra | Concurrent and Distributed Systems(In-Progress)