Aarya Atluri

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Education

The University of Texas at Austin   Austin, TX
B.Sc. Computer Engineering | Software Engineering Track   *2024*

Experience

IMC Trading   Chicago, IL
Incoming Software Engineer Intern | Summer 2024   *Jun 2024 - Aug 2024*
- Expected to work closely with traders and engineers to implement tools and algorithms in C++ and Java

Google   Sunnyvale, CA
Software Engineer Intern | Argos Video Accelerator   *Jun 2023 - Sep 2023*
- Modeled critical VTMON Thermal Sensors within **GRM** software simulation for the Argos ASIC chip, allowing for faster iteration and testing of firmware thermal throttling behaviour for **30k+** Argos chips
- Implemented a **thermal throttling module** that precisely utilizes **CSRs** to maximize performance, reproduce temperature regulation logic, and trigger throttling interrupts to optimize software throttling of video codecs used by over **90%** of Youtube videos
- Engineered a **temperature injection framework** utilizing **gRPC** to test critical firmware response to thermal events

Snap inc.   Palo Alto, CA
Software Engineer Intern | Ads Ranking   *Apr 2023 - Jun 2023*
- Designed and implemented the Cappuccino **conversion measurement framework** into Snap ad ranking infrastructure to reduce inconsistency between ranking applications impacting **37M+** ad deployments daily
- Migrated training and calibration models to Cappuccino framework saving **$350K+** per year by reducing computation and tightening the training window

Nvidia   Santa Clara, CA
Software Engineer Intern | Automotive OS   *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

AMD   Santa Clara, CA
Embedded Software Engineer Intern | OpenBMC   *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
- Programmed a firmware update and BIOS verification software with **Redfish API** deployed to **85%** of Xilinx servers

Sock Club   Austin, TX
Software Engineer Intern | Search Priority   *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

NASA   Houston, TX
Software Engineer Intern | Core Mapping   *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

Relevant Skills

Languages:	Python | C/C++ | Java | Ruby | JavaScript | SQL | Assembly
Frameworks/Technologies:	Flask | Django | Airflow | MongoDB | AWS | Firebase | Azure | Heroku | Kubernetes | Git
Relevant Coursework:	Algorithms | Software Design Lab | Operating Systems | Embedded Systems
	Discrete Math | Linear Algebra | Concurrent and Distributed Systems