

# Harsha Srikara

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## Professional Experience

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**ASIC Embedded Software Engineer II**, Project Kuiper, Amazon    Jan 2024 – present | Austin, Texas

- Developed DV testbenches in **UVM & C** for SOC/block level functional verification with **Sysopsys VCS & LSF** toolchains
- Designed new emulation models using Cadence **Palladium** & Siemens **Veloce** to enable board level verification
- Supported **bootrom & MAC/PHY SW** development by integrating **AVIPs**, using **Trace32** debug, and improved tooling
- Worked with embedded software teams to validate initial chip bringup, **security verification & bootloader** testing
- Architected server and license usage **metric collection** using **AWS** to reduce **\$500k/year** in fixed resource costs
- Created bare-metal emulation tests for **ARM & ARC processors**, secure root of trust, and various memory modules
- Successfully mentored two interns over summer 2023 & summer 2024 to get inclined votes

**Software Development Engineer**, Alexa, Amazon    Aug 2022 – Dec 2023 | Austin, Texas

- Architected microservice-oriented applications on **Native AWS**
- Owned development of resilient OTA (Over-the-Air updates) on **kernel, bootloader** and **Linux** application programs
- Collaborated with multiple **external vendors** across various countries to define requirements, perform code collection & review, establish testing methodologies and enforce working guidelines
- Managed organization's pipelines; Implemented **CI/CD workflows**, coordinated build/packaging & published hundreds of packages (across many teams) into Echo software releases
- Designed a suite of supporting infrastructure & tooling to enable automated workflows (**Jenkins** automation, **python** scripting, etc)

**Software Engineer**, Brainspace, A Reveal Company    Jun 2019 – May 2021 | Dallas, TX

- Designed full end-to-end automated testing suites using **Selenium, Jenkins, Java, PostgreSQL, TestNG** and **Gradle**
- Added machine learning validation pipelines that perform data ingestion, processing and data visualization using **Logstash, Elasticsearch** and **Kibana** which resulted in **25%** increased test coverage
- Developed workflows to **containerize** application development using **Docker** and deployment with **AWS Fargate**
- Worked in an agile environment with various cross-team collaboration tools including **JIRA, Github** and **Confluence**

## Education

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**University of Texas at Dallas**    May 2022

Bachelor of Science in **Computer Science**

GPA: 3.91/4.0

Honors: Academic Excellence Scholar, Deans List, Phi Kappa Phi

## Projects

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**TrackIT (Typescript, React, Auth0, Material-UI, Jest and Firebase)**    Mar 2020 – Dec 2020

- **Real-time** tracking system for event management with advanced metric collection and **data visualization** support
- Hosted **30+ workshops** and partnered with **10+ organizations** over a period of **4 months** to impact **1500+ students**

**Membership Portal (GCP, Sendgrid, Cloudflare Access, Kubernetes)**    Jan 2021 – May 2022

- Provides membership services including program application, event registration and profiling to **950+ students**
- Integrated **multiple identity providers** to provide **single sign-on**, tiered **permission levels** and an **admin console**
- Supported additional services including **email support**, direct to **user notifications**, and **discord integration**

## Organizations

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**Technical Lead**, HackUTD    Apr 2019 – Apr 2022

- Organized flagship hackathon of North Texas with **1000+ attendees** and engaged annual audience of **2500+ students**
- Supervised team of **5 developers and designers** to build dynamic registration and applicant management systems
- **2x** Hackcon International **Conference Speaker** & 2x ACM **Tapia Scholarship** Recipient