





Aruna Parameswaran

Software Development Engineer

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SUMMARY

CS grad student seeking full time opportunities in the software industry. Relevant background includes 2 years of working as a Software Engineer for Amazon Devices, with proven experience in embedded systems, C/C++ native app dev, frontend dev, and deploying, testing and maintaining AWS applications.

WORK EXPERIENCE

EMBEDDED SYSTEMS INTERN

Jun 2023 - Present

RIVIAN

- Responsible for improving the stress test suite. Currently working on building an embedded app to test the DRAM storage.

GRADUATE RESEARCH ASSISTANT

Aug 2022 - May 2023

NCSA

Clowder Project

- Delivered responsive, user-friendly frontend features for the open-source data management Clowder v2 framework

SOFTWARE DEVELOPMENT ENGINEER I

Jul 2020 - Jul 2022

AMAZON INDIA

Device OS Team

- Daily responsibilities include adding new features to ACS SDK, maintaining CLI tools, triaging and fixing app bugs reported by devs
- Implemented service request parallelization and job scheduling in the backend to reduce DRM service query latency
- Build serverless AWS application to send weekly DRM key metrics to 3p vendors via email
- Key Achievements: Major contribution in developing & signing off macOS variant of ACS SDK

SOFTWARE DEVELOPMENT ENGINEER INTERN

Jan 2020 - Jun 2020

AMAZON INDIA

FireTV Team

- Implemented CI/CD approach to programmatically provision AWS resources for FireTV backend microservices
- Replaced manual database entry workflow with a self-serve React website
- Key Achievements: Presented report detailing AWS optimization techniques to reduce team infrastructure maintenance cost

WEB DEVELOPMENT INTERN

Dec 2018 - Apr 2019

LEARNNOVATORS

India

AWARDS & ACHIEVEMENTS

2022 Runner-up Device OS Hackathon @ Amazon
2019 Mentee Amazon Campus Mentorship Series for Women in STEM

PUBLICATIONS

1. **Parameswaran, A.**, et al. (2019). Traffic Signal Violation Detection and Penalty Application System. International Journal of Innovative Technology and Exploring Engineering, pp. 903-907.

SKILLS

PROGRAMMING

EXPERIENCED

C++ • C • Python • JavaScript

PROFICIENT

Java • Bash

FAMILIAR

TypeScript • PHP

FULLSTACK FRAMEWORKS

React • Redux • Spring MVC • JSP

• LAMP stack • JUnit • Jest

DATABASE, ML & CLOUD

SQL • Oracle • Hadoop Map/Reduce

• MongoDB • AWS • PyTorch

TOOLS

Git • Docker • VMware • GIMP •

Jira • CMake • Adobe Photoshop

EDUCATION

UNIVERSITY OF ILLINOIS

URBANA-CHAMPAIGN

MASTER'S IN COMPUTER SCIENCE

Expected Aug 2022 - Dec 2023

CGPA: 3.77

- Awarded waiver generating appointment

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

BACHELOR'S IN COMPUTER SCIENCE AND

ENGINEERING

Aug 2016 - May 2020 | India

CGPA: 9.36/10

- First Class with Distinction
- Dean's list recipient

PROJECTS

DISTRIBUTED ML ENGINE

Aug 2022 - Nov 2022

Designed fault-tolerant distributed query processing system that dynamically balances load across VM cluster, with query latency of 3s and failure recovery latency of 5s.