

# Aruna Parameswaran

Full Stack Software Engineer

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## EXPERIENCE

### RIVIAN AUTOMOTIVE

EMBEDDED SYSTEM SOFTWARE ENGINEER

Jun 2023 - Dec 2023 | Champaign, IL

- Responsible for improving the ADAS ECU stress test suite. Currently working on building stand-alone embedded applications to test various hardware components

### NATIONAL CENTER OF SUPERCOMPUTING APPLICATIONS

RESEARCH ASSISTANT

Aug 2022 - May 2023 | Champaign, IL

- Took ownership of translating functional requirements into mockup designs, and implementing them in React for the open-source data management tool Clowderv2

### AMAZON, DEVICES TEAM

SOFTWARE DEVELOPMENT ENGINEER I

Jul 2020 - Jul 2022 | India

- 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

### AMAZON, FIRETV TEAM

SOFTWARE DEVELOPMENT ENGINEER INTERN

Jan 2020 - Jun 2020 | India

- 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 by 30%

### LEARNNOVATORS

WEB DEVELOPMENT INTERN

Dec 2018 - Apr 2019 | India

- Designed a responsive HR portal from scratch in PHP and HTML. Helped redesign the data model, and implemented SQL query optimization strategies to reduce latency.

## PROJECTS

### DISTRIBUTED ML ENGINE

JAVA, MAVEN, PYTORCH

2022

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

## AWARDS & ACHIEVEMENTS

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

## SUMMARY

Prospective graduate with 3+ years of industry experience and a solid foundation in designing software systems. Strong collaborator with a track record of contributing innovative solutions and quickly adapting to new technologies. Eager to leverage academic knowledge and practical experience to drive impactful results.

## SKILLS

### PROGRAMMING/SCRIPTING

Proficient:

C/C++ • JavaScript • Python  
SQL • Bash • CSS • HTML •

Experienced:

Java • AWS • Hadoop

Familiar:

MongoDB • Oracle • PyTorch

### LIBRARIES/Frameworks

React • Redux • Spring MVC  
JSP • LAMP • JUnit • Jest  
jQuery • Next.js • Yocto

### TOOLS/Platforms

Git • Docker • Jira • CMake  
Photoshop • Virtual Machines

## EDUCATION

### UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

MASTER'S IN COMPUTER SCIENCE

Aug 2022 - Dec 2023

• Awarded waiver generating scholarship

CGPA: 3.77 / 4.0

### SRM UNIVERSITY

BACHELOR'S IN COMPUTER  
SCIENCE AND ENGINEERING

Aug 2016 - May 2020

• Dean's list recipient

CGPA: 9.36 / 10