

# Mathuran Sadagopan

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## Software Engineer

High-impact individual contributor skilled at building scalable systems and solutions. Experienced in Android, Web Development and Backend Development. Excited to develop end-to-end solutions for customers' problems.

## Skills

**Programming Languages:** Kotlin, Java, TypeScript, JavaScript, Node.js, Python

**Frameworks / Libraries:** Dagger, Guice, Spring, AspectJ, React.js, Redux, Vue.js, pandas, scikit-learn

**Technologies:** Tomcat, Android, AWS, Docker, TensorFlow, Git

## Experience

### Software Development Engineer, Payment Acceptance | Amazon | June 2021 – March 2023

Delivered fraud prevention and service resiliency in Amazon consumer payments. Fostered a read, write and learn environment by running wiki and knowledge-sharing sessions. Continuously ensured services were ready for peak traffic events by validating scaling calculations, stress tests and SLAs.

- Increased net customer purchases by ~\$10M as a result of reducing card testing and improving purchase confidence. [Kotlin, Dagger, Tomcat, Fargate]
- Improved service availability by 0.1% by adding a client throttling solution to prevent brownouts due to bad clients
- Implemented a solution to control client throttling limits in real time using AWS App Config
- Saved team \$80,000/year by auditing cost of services and removing unused log search tool
- Simplified 5 Aws-Cloudwatch dependency dashboards by implementing a generic library in typescript
- Performed on-call duties for business-critical services in Amazon and maintained less than 7 ticket queues.

### Software Engineer Intern | Microsoft | May 2020 - August 2020

Created features for various Microsoft products such as Windows Power Toys and Microsoft Teams for Android.

- Using Android Java, developed, and designed 3 new features for improving Teams call experience
- Created features that complied with Microsoft and Android accessibility guidelines
- Successfully demonstrated the feasibility of a Windows color-picking tool via a C# UWP POC app

### Full Stack Developer | Ellis Don | May 2019 – August 2019

Improved productivity for 100's in the construction industry by building online tools for streamlining workflows

- Developed responsive and stateful components such as form fields and dashboards. Built the front end using react.js and redux. Backend services were Go or Java Spring Boot

## Education

### BEng of Computer Engineering (CO-OP) | McMaster University | Sept 2017 - April 2021

## Projects

### Siren Sense - [React Native, Python, Tensor Flow] | Jan 2021

- Designed an audio detection app for allowing sound to pass through headphones when alerting noise is detected.
- Used React Native to develop the front end and used Tensor Flow libraries to develop the audio detection model