Mathuran Sadagopan

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Software Engineer

High impact induvidual contributer 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 – Present

Delivered on 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 buisiness critcal services in Amazon and maintained a less than 7 ticket queue.

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 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 frontend using react.js and redux. Backend services was 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 passthrough 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