Mathuran Sadagopan

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Skills

Programming Languages	Frameworks / Libraries	Technologies
Kotlin, Java	Dagger, Guice, Spring, AspectJ	Tomcat, Android
TypeScript, Node.js	React.js, Redux, Vue.js	AWS
Python	pandas, scikit-learn	TensorFlow

Experience

Software Development Engineer | Amazon   June 2021 – Present

- 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
- Created a solution to control client throttling limits in real time using AWS App Config
- Ensured services were ready for peak traffic events by validating scaling calculations, stress tests and SLAs
- Saved team $80,000/year by auditing cost of services and removing unused log search tool
- Simplified aws-cloudwatch dependency dashboards by implementing a generic library in typescript

Software Engineer Intern | Microsoft   May 2020 – Aug 2020

- Using native Android Java, developed, and designed 3 new features for improving Teams call experience
- Created dynamic components that complied with Microsoft and Android accessibility guidelines
- Contributed to a POC feature for open-source project called Power Toys. A Windows power tools app
- Successfully demonstrated feasibility of a Windows color picking tool via a C# UWP POC app

Full Stack Developer | Ellis Don   May 2019 – Aug 2019

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