

# KARUN DAWADI

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## EXPERIENCE

### Software Developer

July 2022 – Present

Amazon.com Inc.

San Francisco, CA

- Developed a new Now Playing screen and an onboarding experience for CarMode in the Amazon Music iOS application using Swift and Objective-C, unit testing the code with XCTest and adhering to MVVM architecture with RxSwift integration.
- Managed a microservice on AWS using AWS CDK, offering personalized recommendations to drivers based on their location and preferences.
- Slashed perceived latency in high velocity REST API endpoints (ten million daily hits) by 70% and cut costs by 20% through effective log management, endpoint optimization, response size reduction, and caching.
- Led the development of a Node.js package to streamline tenant-specific test onboarding ensuring CI/CD compliance. This led to a significant reduction in deployment time from hours to minutes.
- Eliminated manual deployment and increased developer velocity by implementing automated integration testing.
- Onboarded, supported, and resolved micro-services issues for developers, using my findings to enhance documentation for future reference.
- Implemented unit testing using the Jest framework to ensure the integrity of all Lambda and CDK code changes.
- Used A/B testing, integration testing, smoke testing, and sanity testing to optimize the client experience, ensure seamless deployments, validate system integrity, and enhance code quality.
- Actively participated in code reviews, offering constructive feedback, and incorporating comments to improve code quality and ensure adherence to programming principles.

## TECHNICAL SKILLS

**Programming languages:** Typescript, Swift, Java, Objective C, Python, C, C++, C#, Regex

**Amazon Web Services Technologies:** Cloud-formation, Cloud-Watch, Lambda, S3, API Gateway, Cloud-Front

**Back-end development:** AWS CDK, Back-end for Front-end, Server-less, Django, Flask

**Mobile development:** iOS (Swift, Objective C, RxSwift), React Native, Expo

**Web development:** React, Angular, Redux, Axios, Bootstrap, HTML, CSS

**APIs:** RESTful APIs, GraphQL, Web Sockets

**Database:** MySQL, MongoDB, PostgreSQL

**Testing:** Jest, XUnit, XCTest, Selenium, Unit testing, A/B Testing, Smoke and Sanity testing

**Build Tools/ Repository:** GIT, Maven, Gradle, CocoaPods, Github, Bitbucket, Gitlab

**Methodologies:** Agile, TDD, RAD, BDD

**Developer Tools:** IntelliJ, Postman, XCode, Android Studio, VS Code, Eclipse, Jira, Service-Now

## PROJECTS

**SaveCash** |   | *React Native, TypeScript, JavaScript, Redux, Expo, GIT*

Jun 2021 – June 2022

- Developed and published a React Native Android and iOS expense management app, implementing persistent storage using Redux-persist, using Expo for development and testing, and leveraging a variety of React Native and React libraries for the front-end.

**What to watch tonight?** |    | *Python, Flask, Pandas, Numpy, React, Axios, Bootstrap*

Aug 2021 – Nov 2021

- Designed and developed a web application using Python, React, Flask, and Flask-CORS to recommend movies to users using a user-user collaborative filtering algorithm, with a front-end created using Axios, Bootstrap, Material-UI, and React.

## EDUCATION

**The University of Texas at Arlington**

Arlington, TX

*Bachelor of Science in Computer Science*

2018-2022

- **Capstone project:** Developed a grassroots election management system using React and Flask, with machine learning capabilities to predict voter's political affiliations.