

KARUN DAWADI

510 455-2688 | karun.dawadi@icloud.com | San Francisco, CA
[linkedin.com/in/karundawadi](https://www.linkedin.com/in/karundawadi) | github.com/karundawadi

EXPERIENCE

Software Developer

July 2022 – Present

Amazon.com Inc.

San Francisco, CA

- Designed and developed a new now playing screen and onboarding experience for CarMode within the Amazon Music iOS app. Leveraged Swift and Objective-C to build UI components, implemented unit tests using XCTest, and adhered to the MVVM architecture with RxSwift integration
- Developed and maintained the DMAutomotive microservice, a Backend for Front End service hosted on AWS and managed using the AWS Cloud Development Kit (CDK)
- Introduced an automated testing mechanism following the TOD paradigm, ensuring comprehensive test execution with each commit and aligning with CI/CD principles for streamlined production deployments
- Leveraged AWS CDK to design, implement, and maintain endpoints, alarms, and dashboards for enhanced infrastructure management
- Provided comprehensive onboarding and troubleshooting support to new developers, effectively resolving microservice issues and fostering a productive learning environment
- Developed and maintained a high-traffic REST API endpoint with over two million unique daily hits, achieving a 70% reduction in perceived latency through log management, endpoint optimization, and response size reduction
- Leveraged design patterns such as decorator, strategy, builder, provider, and repository to ensure maintainable and scalable code, enabling the delivery of a new endpoint three weeks ahead of schedule
- Implemented comprehensive unit testing using the Jest framework to ensure the integrity of all Lambda and CDK code changes
- Developed and implemented a new Node.js package that facilitated efficient onboarding of tenant-specific tests, enabling CI/CD compliance and reducing overall time to deployment from hours to min
- Actively participated in code reviews, providing constructive feedback and implementing comments to enhance code quality and adherence to programming principles
- Utilized A/B testing, integration testing, smoke testing, and sanity testing to optimize client experience, ensure seamless deployments, validate system integrity, and enhance code quality

TECHNICAL SKILLS

Programming languages: Typescript, Swift, JavaScript ES5/ES6, Objective C, Python, Java, 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 development (Swift, Objective C), RxSwift, React Native, Expo, Flutter

Web development: HTML, CSS, React, Redux, Axios, Bootstrap, Github pages, WordPress, CPanel, Google Analytics

APIs: RESTful APIs, GraphQL

Database: MySQL, SQL/NoSQL, Firebase


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

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

Methodologies: Agile, Waterfall, Test Driven Development (TDD), Rapid Application Development (RAD)

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

PROJECTS

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

Jun 2021 – June 2022

- Developed Android and iOS application using React Native that allows users to manage their expenses
- Implemented persistent storage using Redux-persist, published an Android application on the Play Store via Google Play Console, and used a variety of react-native and react libraries to design the application's front-end
- Used Expo for managing the development process, making builds, and testing on a variety of devices

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

Aug 2021 – Nov 2021

- Designed a web application using Python and React that recommended movies to users using a user-user collaborative filtering algorithm
- Designed a REST API using Flask and Flask-CORS, implemented the user-user algorithm using Pandas and Numpy
- Used Axios to communicate to back end system, and used bootstrap, material-UI, and React to create the front-end