

Joseph “Mac” O’Brien

Software Engineer & Application Developer

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PROFILE

Adaptive and versatile software engineer with a strong foundation in mobile development. Eager to explore new technologies and continuously expand my skillset, I am driven by curiosity and a commitment to innovation. I thrive in collaborative environments, believing that clear communication and knowledge sharing are key to achieving collective success and delivering high-quality results.

EXPERIENCE

VML Apps (formerly Wunderman Thompson Apps)

Denver, Colorado

React Native Developer

August 2023 - August 2024

- Contributed to a ground-up build of the Berkshire Hathaway Energy iOS and Android applications using React Native for cross-platform development.

iOS & tvOS Developer

June 2020 - August 2023

- Original team member for the March Madness Live iOS and tvOS app rewrites, completing the project in under a year and delivering it for the 2022 tournament. Integrated our GraphQL API with Apple’s Combine framework to ensure fast, efficient data flow and provide real-time updates to the user interface.
- Led a complete overhaul of the ConEdison and Orange & Rockland iOS apps to align with Apple’s Human Interface Guidelines for Accessibility, improving usability for all users.
- Integrated a new RESTful backend into the ConEdison and Orange & Rockland iOS apps.

Associate iOS Developer

September 2018 - June 2020

- Developed and maintained features for the Official NBA app for iOS & tvOS. The app provided scores, streams, stats, community events, news, and other media to users.
- Enhanced user analytics, boosting engagement, monetization, and app performance.

Intern iOS Developer

May 2018 - August 2018

- Joined the iOS team for the Official NBA app, contributing within an Agile development ecosystem and gaining valuable insight into the mobile application development lifecycle.

INDUSTRY-PROVEN SKILLS

- Swift, Objective-C, TypeScript
- Xcode, Android Studio, & VS Code
- Unix: Bash/Zsh for automation & system management
- GraphQL and RESTful API Integrations
- Use of MVP, MVVM, & MVC design patterns
- Apple Frameworks: Foundation, UIKit, Combine, CoreData, AVFoundation, CryptoKit, XCTest, URLSession, WebKit, & UserDefaults
- Accessibility: Dynamic Type & Voiceover
- Package Managers: SPM, CocoaPods, npm, & Yarn
- Jenkins for CI/CD Pipelines
- Version Control using Git & Github
- Code reviews for Quality Assurance
- Test Driven Development
- Utilizing HTTP/HTTPS Proxies for Testing
- Postman for testing & debugging APIs
- Agile development methodologies
- JIRA & ADO for project task management
- Security: OAuth, JWT, Encryption
- JavaScript, HTML, CSS
- React-Native: Hooks, Redux, Context API, Recoil, NativeBase, Axios, & React Navigation

OTHER SKILLS

- SwiftUI & SwiftData
- Containerization using Docker
- AWS: S3, CloudFront, EC2, Amplify, & Route 53
- Languages: Java, Kotlin, Python, Ruby, C++, Rust, Go, & Dart
- Flutter for Cross-platform apps
- Expo for React Native
- GitHub: Copilot, Actions, & WebHooks
- Vim
- Frontend: React & Next.js
- Backend: Spring Boot, Node.js, Django, & Flask
- Swagger (OpenAPI)
- Relational Database Management: SQLite, PostgreSQL, MySQL
- NoSQL: MongoDB, Redis, Cassandra
- Python Libraries and Frameworks: NumPy, SciPy, Pytest, Pandas, SciKitLearn, Transformers, Gymnasium, TensorFlow, Pytorch, Matplotlib, Seaborn, & Jupyter Notebook

EDUCATION

Colorado School of Mines - Golden, CO Bachelor of Science in Computer Science, May 2023

- June 2019 - Helped build a tool using Spring Boot, Swagger, and SQLite to mock micro-services for Salesforce. The tool was designed to address debugging and coupling issues commonly encountered in a micro-service ecosystem.