

# JUNAID ZAIDI

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## PROFESSIONAL EXPERIENCE

### Apla Inc

May 2023 – Present

Software Engineer

San Francisco, CA

- Developed a mileage-tracking iOS app using **UIKit**, **Core Location**, and **Map Kit**, enabling route tracking, mile calculation, and tax-saving estimates for work-related trips, while categorizing trips to maximize user tax benefits.
- Designed and implemented secure backend system with multi-tenant authorization capabilities using **Node.js**, integrating financial services platforms such as Mercury, Brex, QuickBooks, and Plaid.
- Integrated **LangChain** and **OpenAI's API** for chat-based API interactions, automating daily transaction categorization and client clarifications, **improving efficiency by 23%** and enhancing user experience.
- Conducted code reviews and root cause analysis to identify and resolve system issues, improving system reliability and **reducing error rates by 20%**.

### Techlogix

June 2019 – Feb 2021

Software Engineer

Boston, MA

- Pioneered **microservices architecture**, scalable and reliable **RESTful backend APIs**, and orchestrated the design of responsive **iOS applications (Swift)**, amplifying user experience and overall application responsiveness.
- Optimized database performance by implementing a **Redis** caching strategy, **reducing database queries by 30%**.
- Collaborated with **cross-functional** teams using **Agile** (Sprint planning, Scrum) to ensure on-time, QA-verified deliveries.

## INTERNSHIP EXPERIENCE

### Twitter (X)

June 2022 – Aug 2022

Software Engineering Intern

San Francisco, CA

- Developed face detection feature using **Vision framework** and integrated into tweet composer, leading to increased **user engagement** and **UAM** through personalized notifications.
- Deployed **A/B testing** to **15%** of Twitter's **iOS** user base using **feature flags**, resulting in increased engagement metrics.
- Redesigned tag settings flow, improving visibility and control while **reducing steps by over 50%**.
- Implemented **unit testing**, ensuring robust app functionality across multiple iOS devices.

### University of Maryland, College Park

Aug 2021 – June 2022

Research Assistant

College Park, MD

- Prototyped and developed an application using **React.js** (front-end) and **Swift** (iOS), optimizing survey data collection and **increasing survey completion rates by 33%**.
- Streamlined reporting by automating data extraction from **NoSQL database** to the dashboard through **Python** scripts.
- Achieved a **0% crash rate** across **1000+ users** while gathering research survey responses.

## EDUCATION

### University of Maryland, College Park

Aug 2021 – May 2023

ME, Software Engineering

GPA: 4.0 / 4.0

### National University of Computer and Emerging Sciences

Aug 2015 – May 2019

BS, Computer Science.

GPA: 3.57 / 4.0

## SKILLS

**Languages:** Swift, Python, JavaScript, Typescript, Java, C#

**iOS:** UIKit, SwiftUI, Auto Layout, Core Data, Combine, User Defaults, CocoaPods, Concurrency & Multithreading (Async/Await, GCD, Operation Queue), XCTest, Unit Testing, UI Testing.

**Web:** React, Node, Express, Next, Figma, SQL, NoSQL, Microservices, Docker, Kubernetes, Firebase, AWS (EC2, S3, RDS), MongoDB, MySQL, Postgres, Redis, Firebase, Version Control (Git, GitHub), Azure DevOps (CI/CD), REST API.

**Design Patterns & Architectures:** MVC, MVVM, Coordinator, Singleton, Delegate, Observer, Adapter, Factory, Decorator.

**Concepts:** Object Oriented Programming, Protocol Oriented Programming, Data Structures, Algorithms, and System Design.

## PROJECTS

**Smart Attendance:** Developed an application to mark attendance on Web Portal with **92% accuracy** through Facial Recognition and Facial Detection through CCTV live footage and videos.

- Technologies:** Python, React.js, Node.js, SQL Server, MVC, HTML, CSS

**Smartphone Surveys:** Engineered an iOS application utilizing a modularized approach and design principles, enabling users to conveniently complete surveys at their own pace.

- Technologies:** Swift, UIKit, Xib, Auto Layout, URLSession, CocoaPods, Local Notification, Core Data, MVC, Figma
- App Store Link:** <https://apps.apple.com/us/app/smartphone-surveys/id1616206393>