

# ATHARV SHARMA

MSc Software Development

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## PROFESSIONAL EXPERIENCE

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### Mahindra & Mahindra, India

#### System Engineer

Period: March 2021 - July 2022

- Automated and optimized the testing process for **Android applications** by developing **Python** scripts. Reduced testing duration and generated comprehensive reports that facilitated the identification of cloud communication failures, leading to **enhanced efficiency and reliability** in the testing phase.
- Acquired knowledge of **MQTT communication** and successfully integrated it into automotive systems. This integration played a crucial role in bolstering the communication capabilities of the vehicles, contributing to improved overall performance and user experience.
- Applied **data analysis techniques** to sensor data, enabling the early detection of sensor malfunctions and irregularities. This approach contributed to early maintenance, minimizing downtimes and ensuring operation of vehicles.
- Facilitated the seamless transition of tractor variants from outdated Electronic Control Units (ECUs) to modern counterparts. Ensured the compatibility of legacy equipment with newer ECUs, contributing to the **sustainability** of existing infrastructure while following technological advancements.
- Conducted comprehensive training sessions for the customer support team to improve their proficiency in utilizing diagnostic **websites and applications**. Empowered the team to provide more informed and effective support to customers, enhancing overall customer satisfaction.
- Meticulously documented and tracked bugs, defects, and anomalies encountered during the testing of various features. This meticulous record-keeping played a pivotal role in refining the development process, resulting in the delivery of more stable and robust software solutions.

### CodeBrew Labs, Chandigarh, India

#### IOS Developer

Period: Jan 2020 - July 2020

- Delivered customized **iOS** app solutions for a diverse clientele, aligning technology with client objectives.
- Delivered integration of key **APIs** (Mapbox, Firebase, Facebook, Google Auth) into iOS applications, increasing functionality and enhancing user engagement.
- Engaged in **cross-functional** collaboration within the **Scrum** teams. Skillfully partitioned designated features into actionable Product Backlog items. This segmentation helped in successful feature implementation, involving close collaboration with **Quality Assurance** and **UI** designers to ensure optimal outcomes.

## TECHNICAL SKILLS

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- Proficient in:** C++, Java, Python, Swift, SwiftUI, Dart, SQL, Flutter, Pandas, Numpy
- Web Technologies:** HTML, CSS, JavaScript, React, MongoDB
- Experienced with:** Git, Netlify, Firebase, Eclipse, visual studio, Xcode
- Adept in **mobile app** development for **Android** and **iOS** platforms.
- Experienced in working with **REST APIs**.
- Experienced in working with Agile methodologies (Scrum, Kanban).
- Skilled in **IoT technologies** and protocols (MQTT)

## EDUCATION

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- Master of Science in Software Development, University of Glasgow, UK** **Period:** Sep 2022 - Present  
*Core Modules:* Java Programming, Algorithms and Data Structures, Cyber Security, Database Theory  
Expected Grade: 1st class
- Bachelor of Engineering in Electronics and Communication** **Period:** July 2016 - May 2020  
**Panjab University, India**  
Grade: 8.01 CGPA with Honours Degree. Received meritorious student scholarship in First year

## PROJECTS

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### Pet Playdate Booking App [Dissertation], University of Glasgow

- Designed, developed, and deployed a cross platform application using Flutter.
- Implemented user **authentication, registration, and profile management** functionalities using Firebase authentication for secure user access.
- Integrated **Crashlytics** to capture any unexpected crashes during development and testing of the application.
- Used **REST APIs** using **Firebase**, to efficiently handle client-server interactions, including fetching and updating of user profiles, bookings, and interactions.
- Implemented **data validation, sanitization, and security measures** to prevent common vulnerabilities and ensure data integrity within the application.

### Vehicle Tracking and Management App [IOS]

- Developed an iOS application using **SwiftUI** that closely improves the user interface and functionality of the **vehicle app**.
- Implemented key features of the Tesla app, such as vehicle status updates, remote climate control, and vehicle tracking, showcasing proficiency in **integrating APIs, user authentication, and secure communication protocols**.
- Leveraged **Swift's** modern programming paradigms(MVC) to create an intuitive **user experience**, enabling users to seamlessly interact with the app's features, including vehicle control, charging management.
- Link: <https://github.com/atharvsharma1998/TeslaApp>

### Weather App [Deployed on Google Play Store]

- Designed and developed a dynamic **Android** weather application that offers users up-to-date weather forecasts, interactive maps, and personalized notifications. The app has an active user base of 10+ users.
- Integrated weather data from reputable sources, utilizing **RESTful APIs** and **JSON parsing techniques** to ensure accurate and timely weather updates, enabling users to stay informed about current conditions, forecasts, and severe weather alerts.
- Leveraged location-based services and geocoding APIs to provide users with localized weather information, optimizing the app's user experience by delivering personalized weather updates and location-specific alerts.
- Link: <https://bit.ly/3mgllpJ>

### Movie and Web Series Viewing Platform

- Developed a web-based platform utilizing **ReactJs** framework to present Netflix movies and web series categorized by genre.
- Integrated an open-source movie API to efficiently fetch and showcase relevant movie details on the website based on the user's selected genre.
- Enhanced the visual aesthetics of the platform with custom **CSS styling** that resonates with the recognizable Netflix color scheme, creating an engaging and cohesive user experience.
- Link: <https://netflix-clone-19eb5.web.app>

### Web Game For University Hackathon

- Participated and won 2nd position in university hackathon for developing an Interactive web game with accessibility features such as voice controls and virtual gamepad.
- Link: <https://github.com/TheGiraffe/DoYouHaveTheGUTS2022>