

Karan Chander

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Portfolio: <https://karanchander.github.io/Portfolio/>

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EDUCATION

Master of Science in Computer Science, University of Massachusetts, Boston

August 2022 – May 2024

Bachelor of Engineering in Computer Science, KCC Institute of Technology & Management, India

August 2015 - May 2019

TECHNICAL SKILLS:

Languages: Swift, SwiftUI, Objective-C, C++, Python, JavaScript

Application Development: iOS, Swift UI, Android, Web

Project Management: Agile, JIRA, Git, PowerShell

Development Tools: XCode, VSCode

Database Management: Realm, Data core, SQL

EXPERIENCE (4.5 Years)

iOS QA/Dev Co-op

SAP, San Ramon, CA, USA - Remote

August 2023 - Present

Tech Stack Swift, XCUITest, Python, Azure CI/CD pipeline, SwiftUI, Core Data

- Developed and executed automation scripts for mobile applications using **XCUITest**, enhancing testing efficiency and reliability.
- Increased code coverage by 20-30%** across various applications significantly improving software quality.
- Implemented a **cloud-based testing framework(SauceLabs)** integrated with SAP's Azure CI/CD platform, enabling automated testing processes.
- Identified and resolved **memory leaks** in multiple iOS applications using Instruments, enhancing app performance and **reducing crashes by 20%**
- Collaborated with cross-functional teams to **integrate ChatGPT with existing systems** and maintained Core Data database.

Technical Lead

University of Massachusetts, Boston, MA, US

September 2023 - May 2024

- Assisted in **researching and compiling data** for a study on schools across the US, focusing on activities for students with special needs, which resulted in the creation of an **analytics dashboard web application** named "**Special Olympics**"
- Facilitated client understanding of technical requirements and **transformed Excel data into a fully operational analytics dashboard**, including website hosting and ongoing maintenance.
- Led weekly tutorial sessions for undergraduate students in programming language, **improving their average grades by 20%**.

iOS Developer

Appinventiv Technologies Ltd., Noida, India

Tech Stack Swift, SwiftUI, XCUITest, XCode, iOS, AWS S3/EC2, Firebase, React Native

January 2019 - July 2022

- Developed a beautiful and customer-friendly UI/UX that includes **auto-video play, an audio player for podcasts, analytics tools, socket chat, Agora SDK integration for live streams**, and maintained a **local database(Realm)** in the application.
- Led a team of 5-6 members** and managed inter-team communications across different locations and time zones during the pandemic, ensuring timely project delivery and **enhancing team productivity by 30%**.
- Deployed multiple applications** on the App Store, resulting in successful approval by Apple and **achieving over 100k downloads**.
- Directed frequent communication with the clients to understand their technical requirements and led the iOS development, ensuring **alignment with client needs and successful project delivery**.
- Understanding of UI design and a user-oriented focus, hands-on experience in developing iOS applications and integrated **REST web services in the iOS app**.
- Wrote high quality code using **MVC and MVVM architecture** and covered code with **Unit and UI test**.
- Enhance the quality of code by **fixing memory leaks** throughout the application achieving **35% more efficiency**.
- Integrated payment gateways like **Stripe and In-App Purchase**, ensuring a seamless payment experience fully compliant with Apple guidelines.
- Integrated Core Bluetooth (BLE)** to transfer health-related readings from a Bluetooth device to our application, resulting in the **successful transfer of glucose data** and enabling in-app health monitoring for users.

PROJECTS

Epluribus MOXY (iOS Developer) - [link](#)

October 2019 - January 2021

- Developed a social media application designed for citizen empowerment in a positive, contemporary, educational and non-partisan format. It features detailed location-based information such as elected officials, legislation, ballots, voting process information, a robust news feed and public forums.

GBS - Saliva Glucose Biosensor (Sr. iOS Developer)

February 2021 - June 2021

- Developed an **IoT application** that manages the activity of users' glucose readings, carbs, and exercise.

Avatus Application (Sr. iOS Developer)

July 2021 - July 2022

- A social media application that allows users to create content anonymously, under the identity of a custom user-created avatar.
- Followed an **MVVM architecture**, **implemented an AR kit**, and **REST services integration** for the project.