SOUVIK DAS

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OBJECTIVE

Experienced **Mobile Application Developer** with a solid **2-year** foundation in iOS and Android Application Development. Additionally, equipped with **1.5 years** of hands-on experience as a **Graduate Teaching Assistant**. Proficient in creating engaging learning environments conducive to student success. Actively seeking **Teaching** and **iOS Developer** opportunities commencing in **Winter (January) 2024**.

EDUCATION

Masters, Computer Science, Oregon State University   Sep 2022 - Mar 2024
Relevant Coursework: CS(561, 565, 575, 572, 527, 569, 579), AI534, IE571
GPA: 3.90

Bachelor of Technology Computer Science, Indian Institute of Information Technology   2018 - 2022

SKILLS

Languages	Obj-C, C, C++, Python 3, Java, Swift, Kotlin, JavaScript
Tooling	Git, Sourcetree/Sublime Merge, VS Code, Postman, Swagger
Integration/Mobile Development	UIKit(MVC/MVVM), XCTest, CocoaTouch/CocoaPods, REST, gRPC
Database/DevOps	AWS Suite, MongoDB, MySQL, Firebase, Core Data, Jenkins, CI/CD
Relevant Skills	Object-Oriented Design, Agile Methodologies

PUBLISHED APPLICATION(S)

UpTodd(iOS/iPadOS) - Link to App Store!

EXPERIENCE

Graduate Teaching Assistant   Dec 2022 - Mar 2024
Oregon State University   *Oregon, US*

- **CS599(Mobile Software Development)**, CS464(Open Source Software Development), CS381(Programming Language Fundamentals), CS361(Software Engineering)

iOS App Developer Intern   Jan 2021 - Aug 2021
UpTodd   *India*

- **Proficient in API Development:**
  Demonstrated expertise in designing and implementing REST APIs, facilitating seamless communication between various systems.

- **Audio Engineering with AVFoundation:**
  Spearheaded the development of a sophisticated iOS audio player, leveraging the capabilities of AVFoundation to curate an immersive and high-quality auditory experience.

- **Implementation of Apple Push Notification (APN):**
  Successfully integrated and deployed Apple Push Notifications, ensuring timely and pertinent updates to enhance user engagement and experience.

- **Strategic Localization for Enhanced Usability:**
  Implemented a comprehensive localization strategy, resulting in a substantial **25%** improvement in overall usability—a testament to a user-centric approach and a globalized user interface.

Mobile App Developer Intern Oct 2020 - Dec 2020

West Coast Paper Mills Limited *India*

- **Advanced 3D Visualization with RealityKit and ARCore:**
  Spearheaded the generation of intricate 3D models and harnessed the power of RealityKit and ARCore to provide insightful visualizations, enhancing comprehension of key sectors within the mill through our mobile application.

- **Innovative In-App Communication:**
  Engineered a sophisticated in-app chat feature, seamlessly integrating both Apple Push Notification (APN) and Firebase Cloud Messaging. This cohesive solution ensures real-time communication, contributing to an enriched user experience.

Android App Developer Intern July 2020 - Oct 2020

Heal by Us *India*

- **Ensured Secure In-App Transactions:**
  Implemented and maintained robust in-app purchase security through seamless integration with RazorPay, ensuring a reliable and secure financial transaction environment.

- **Innovative Prescription Management System:**
  Collaborated with the team to develop a cutting-edge in-app prescription creation and signature feature. This initiative resulted in a commendable **75%** reduction in paper consumption, aligning with sustainability goals and enhancing operational efficiency.

- **Optimized Order Tracking with Google Maps API:**
  Integrated the Google Maps API to enable real-time order tracking, enhancing the overall user experience by providing accurate and live updates on order statuses.

CONTRIBUTIONS/PUBLICATIONS

Identification of hate material in code-mixed social media data using demographic and contextual information: This publication examines methods to detect targeted audience and severity of code-mixed/Hinglish (Hindi+English) hate speech in social media while distinguishing this from general profanity. We aim to establish lexical baselines for this task by applying NLP algorithms using our data set and embeddings for this purpose.View it here!

IndiaStack API for educational institutions: This publication harnesses the power of IndiaStack APIs, notably the Digilocker API. By seamlessly integrating this technology, we aim to simplify the admission process for educational institutions. The technology stack includes a dynamic web application (MERN Stack) and mobile applications for iOS/iPadOS (Swift, Firebase) and Android (Java, Firebase), ensuring a comprehensive, tech-forward solution for online admissions. View it here!

Deepfakes and Generative Adversarial Networks: View it here!

PROJECTS

iOS Speech Controlled AR-bot: View it here!

iOS OCR: Developed this app using **iOS Vision** to easily extract code snippets from youtube tutorials which do not have a git link. Watching and typing becomes a tedious task at times.

iOS News: Using **REST API** combined news from various leading news sources to create an all-in-one News app.

iOS Blog Application: View it on GitHub!