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Projects

Attendance Tracking and Management | *React Native, Python Django, Firebase*

Dec. 2023

for Scaler School of Technology

- Built a cross-platform application which enables student to mark their attendance for a scheduled class using Geo location and Bluetooth to verify presence.
- Handled user logins from within the organization only with only access from only one device.
- Implemented Cloud messaging and notifications for reminders with custom messages and sounds, for reminders and alerts.
- Implemented logic and checks to prevent location spoofing, allow auto marking of attendance using background services and multiple checks to verify the presence of student in the class.
- Handled and managed daily and weekly releases along several real world challenges which arrived during the build process.
- Application has a daily active user base of 800 students currently active at Scaler School of Technology
- Currently handling simultaneous attendance across various courses and classes at the same time and implementing more secure
- Implementing more features to build a complete platform for student and administration engagement at Scaler School of Technology.
- Lead the front end team to design and develop and constructed necessary protocols required for functioning of the app.

Book Sharing in Co-Living Community | *Kotlin, Spring Boot, Firebase*

Dec. 2023

for Zolo Property Solutions Pvt. Ltd.

- Built a cross-platform plug and play application which enables residents of a co-living space offered by Zolo to engage with other residents by sharing books among themselves.
- Worked on front end and back end to implement a CBS(Core Banking System) like architecture for creating and processing requests for books.
- Implemented DB indexing, caching and other similar optimization techniques to drastically improve response times and API performance
- Implemented Cloud messaging and notifications for reminders with custom messages and sounds, for reminders and alerts on new book posts and updates.
- Implemented auto processing of requests, easy returns and ratings based of quality of transactions(the way book was handled by borrower and the customer experience of the borrower)
- Implemented test coverage for all API endpoints and deployed CI/CD workflows to assure high maintenance and high availability services.
- Application is being integrated with the Zolo Co-Living application and it will have an estimated active user base of more than 1 Million people
- Currently handling coin based reward system for successful transactions and good usage by owner and borrower.
- Implementing more features to build a complete platform for community engagement for Zolo residents and Zolo Scholar users.

Automating and Managing Printing Jobs | *Python, MySQL, Bash*

Dec. 2023

for Local Shops and Retailers in Dharamshala, Himachal Pradesh

- Developed a Multi threaded web application for shop owners in Dharamshala to automate printing jobs by automatically fetching and printing documents from SMTP/Email servers.
- Developed a admin portal with user control and data analytics. Portal allows users to block certain email address by blacklisting them, view analytics of their shops and automatically email back the bill of the job to the user with payment link.
- Implemented user Notifications for actions like enqueue and dequeue of jobs from the print queue. Notified users when their request was completed and also notified the shopkeeper in case of any malfunction or exception during the run

for Bhashini (Government of India)

- A currently under development project for the Digital India Bhashini Division of the Government of India.
- Working on backend in Typescript and Node JS to manage contributions in the Open Source Projects created by Bhashini.
- Working on development using proper defined documentation with proper design patterns and development approach.

Education

Scaler School Of Technology

July 2023 – July 2027

Bachelor + Masters of Science in Computer Science

Birla Institute Of Technology And Science

July 2023 – July 2026

Bachelor of Science in Computer Science

Achievements

- Participant - Quantum School for Young Students - Institute for Quantum Computing - University of Waterloo
- Cambridge Scholar 2022 - University of Cambridge
- Certificate of Excellent Performance - Qiskit Global Summer School 2021,2022 - IBM

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, TypeScript, SQL, Go, Kotlin, BASH

Developer Tools: Figma, GitHub, Docker

Technologies/Frameworks: Linux, Git, Spring Boot, Django, React, NextJS

Leadership / Extracurricular

Book Sharing MS Team - Zolo x Scaler School of Technology

March 2023 – Present

Backend Technical Lead

- * Led a team of 3 back end developers to design and develop a Back end Micro Service in Spring Boot.
- * Designed and coded multiple features, with broad test coverage into the back end to share books within a co-living space.
- * Handled real world deadlines and meetings with ease and was highly appreciated.

Open Source Club - Scaler School of Technology

December 2023 – Present

Core Member

- * Core Member of the Open Source Club of Scaler School of Technology with over 100 members to practice and promote open-source development
- * Conducted multiple sessions and workshops on various concepts related to Software Development and Open Source programming
- * Organized hackathons and competitions for students with challenging and creative problem statements

Relevant Coursework — Interests

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| • Data Structures | • Web Development | • Multi Threading | • Probability and Statistics |
| • Shell Scripting | • Linux OS | • OOPS | • Business Problem Solving |