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🐙 github.com/gokuls-codes

Education

Indian Institute of Technology, Hyderabad

Bachelor of Technology in Computer Science and Engineering

July. 2019 – May 2023

Hyderabad, Telengana

Relevant Coursework

- Data Structures
- Algorithms
- Database Management
- Operating Systems
- Computer Networks
- Computer Architecture
- Artificial Intelligence
- UI/UX course by Google

Experience

BlueStone Jewellery and Lifestyle

Software Engineer

June 2023 – Present

Bengaluru, Karnataka

- Working on migrating the **Billing software** used in shops to **React** which will improve the **user experience** at stores. Tech stack involved **React, Vite, Redux, Tailwind CSS, React Router**.
- Worked on a microservice to get similar jewellery designs based on image uploaded using **Faiss, Python and Django**.
- Worked on a project that aims to improve customer experience in stores by using RFID for scanning products.
- Tech stack includes **Spring Boot, Next.JS, React Native, Electron JS, MicroPython, MySQL** and hardware used are Raspberry Pi Pico, MFRC522 RFID reader, MIFARE and NTAG NFC tags.
- Wrote build and deploy bash scripts for the project and deployed it to **AWS EC2** instance.
- Collaborated with team members using tools such as **Git, Subversion, Jira, Bit Bucket, IntelliJ IDEA, Android Studio, VS Code** to organize modifications, review changes and assign tasks.

Samsung R&D Institute, India

Software Engineer Intern

June 2022 – July 2022

Noida, Uttar Pradesh

- Created a server-client in python using **socket programming** to transfer ML models from server to client.
- Solved a packet loss issue where some packets were missing in the client but the server has sent.

Projects

Expense Tracker App | Next.JS, Typescript, PostgreSQL

July 2024

- Created a web app using Next.JS to track expenses that is fully typesafe using **Typescript, tRPC, Zod, Prisma**.
- Used **Tailwind CSS, ShadCN** for creating a modern UI.
- Used modern features of Next.JS like **SSR** (Server side rendering) and **SSG** (Static site generation).
- Used discord for authentication, **PostgreSQL** (in Supabase) as the database and deployed it to **Vercel**.

Multimedia Chat application | React Native, Firebase

August 2022

- Created a multimedia chat application in **React Native** using **Firebase** as the backend.
- Used **Firestore** as the realtime database to store users, chats, messages, etc. **Firebase authentication** for authentication and **cloud storage** to store images.
- Implemented **Firebase security rules** to prevent unauthorized access to messages and media.

Grievance Management System | Django, ReactJS, PostgreSQL, Python, JavaScript, Firebase

August 2021

- Developed a web app where people can post grievances and authorities can resolve them. Users can **upload images**, include which department is responsible for solving a grievance, etc. when posting a grievance.
- Used **firebase** for authentication and wrote a custom authentication class in Django to use **JWT tokens** for auth.
- Implemented a **role based authorization** system, where each role had specific permissions and the UI changes based on the signed in user's role.
- Implemented a notification system using **cron jobs** where authorities are **notified** to resolve a grievance that they have been assigned at regular intervals and if a grievance isn't resolved within a time window, it is **escalated** to the higher up.

Technical Skills

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

Frameworks: Next.JS, React, React Native, HTMX, Spring Boot, Django, Tailwind CSS

Technologies: AWS, Firebase, Supabase, Raspberry Pi, Mongo DB

Achievements

All India Rank **4296** in Joint Entrance Examination (JEE) Advanced, 2019

All India Rank **1325 (99.898 percentile)** in Joint Entrance Examination (JEE) Main, 2019

Kishore Vaigyanik Protsahan Yojana (KVPY) Scholar, 2019

National Talent Search Examination (NTSE) Scholar, 2017