



HUSSAIN PETTIWALA

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EDUCATION

K.J Somaiya College of Engineering Sept 2020 - May 2024
Bachelors of Technology in Computer Engineering - CGPA - 9.4

EXPERIENCE

- Software Development Engineer** Jan 2024 - Present
Edelweiss Global Markets *Mumbai, Maharashtra*
- Implemented a Python library to **facilitate data integration** between C++ structures and systems.
 - Developed a TCP client** in C++ to automate test order management, enhancing testing efficiency for trading systems; integrated with internal servers for operational validation.
- Frontend Developer** Jan 2022 - June 2023
RUDRA Cybersecurity *Mumbai, Maharashtra*
- Participated and contributed in **product design** discussions to build an in-depth business dashboard for an intrusion detection system in the maritime industry from scratch.
 - Integrated** the front-end with REST API along with client-side routing, global state management, and client-side caching for seamless user experience.
 - Collaborated with security professionals to understand the working, architecture and flow of data throughout the system to better test and **simulate end user experience**.
- Chief Technical Officer** Nov 2020 - Dec 2021
ChefCities.com *Mumbai, Maharashtra*
- Collaborated with business professionals to conduct **market research and design a product** to provide an online food ordering and delivery platform for Home Chefs.
 - Built** a full stack web app to create and manage orders, **automate deliveries** using APIs from a third-party delivery provider, and **collect payments and settle** them using Razorpay's APIs.
 - Optimising for customer demand, built a **cross platform mobile application** using React Native with push notifications backed by a robust REST API built using Django Rest Framework with MySQL.
- Full-Stack Developer** April 2021 - May 2021
CashMap.club *Mumbai, Maharashtra*
- Built a REST API with **socket io integration** on Express JS to provide real time chat experience to end users.
 - Modelled SQL** data schema for the app and performed CRUD operations on the same.
 - Built **robust authentication** and routing for cross-platform mobile app using React Native.

PROJECTS

- React Scroll Spy** Customizable Scroll Spy component for react which is Easy to Use and Lightweight with call-back, typescript, auto-update URL hash and throttle support among others. **120k+ instals**. ([Source Code](#)) ([Demo](#))
- Pointer Aid** Given marks of completed assessments predicts the minimum marks required for upcoming assessments to maximise pointer (CGPA). This app has **37K+ views** and over **3000+ active users**. Stack: React, TypeScript, MUI ([Demo](#))
- Chakra View (Kavach Grand Finalist)** An end-to-end tool for monitoring ground personnel (police bandobast). Built REST API to support live location, sockets among other features. A mobile app, web dashboard and NFC tags to accurately track and secure a bandobast. Stack: Django REST Framework, React, React Native, TypeScript. ([Screen Snap](#))
- ChefCities REST API and Mobile App** A cross platform mobile application connected with a Robust REST API. Features include all from ChefCities Web App with order tracking, push notifications, deep linking, email notifications, product customization, delivery

time range selection. Stack: Django Rest Framework, React Native, TypeScript, AWS. ([Demo](#))

Money Mitra A comprehensive WhatsApp-based financial management tool that enables users to track expenses, manage budgets, and split bills effortlessly through messages, images, or audio inputs. Provides personalized financial reports and advice, and tackles user input categorization for efficient actioning, enhancing user experience in personal finance. Stack: React, Django, React Native, OpenAI, Hugging Face ([Demo](#))

3-Transform (ETH India Finalist) A web2 to web3 transition tool offering a single-click solution for transforming websites, for learning and for businesses. Features an optimized backend runtime with Hardhat and shell scripting and LLM powered smart contract creation. Stack: Solidity, React, Flask, Node, Hardhat, Bash ([Source Code](#)) ([Demo](#))

3-Bricks A decentralised platform using Polygon and NFTs to streamline the property buying and selling process, increase transparency and security, and minimise the use of intermediaries by simplifying the transfer of ownership. Includes a smart contract to perform the escrow process. Stack: React, Firebase, Solidity ([Source Code](#)) ([Demo](#))

Apni Bachat This project develops a fair credit score system for a decentralised bank using two smart contracts, promoting financial inclusion and reducing loan default risk. Stack: React, Firebase, Solidity ([Source Code](#)) ([Demo](#))

Java E-Commerce CLI A java package that provides e-commerce functionalities such as 2-Factor Authentication, Products Catalogue, add to cart, Ordering etc. all from the CLI. ([Source Code](#))

Traffic Sign Classifier Using the German Traffic Sign Recognition Benchmark (GTSRB) data set, which contains thousands of images of 43 different kinds of road signs, built a neural network to classify road signs based on an image of those signs. Stack: python, numpy, scikit-learn, opencv, keras ([Source Code](#))

VOLUNTEERING

KJSCE Codecell

Mar 2021 - Sept 2022

Technical Team

Mumbai, Maharashtra

- Conducted **workshops** on the following topics - Competitive Programming, Python, Django, ReactJS, ExpressJS, MongoDB, Firebase authentication.
- Lead a team of 3 to build a website for the annual technical fest at KJSCE. ([Demo](#))
- Built an **application portal** for students to apply and be a part of codecell. ([Demo](#))
- Authored and tested **CP questions** for contests (Codespre and Crackathon) hosted on CodeChef.
- Collaborated to teach **150+ passionate students** the MERN stack beginning from the basics of web development. ([Video Lectures](#))

TECHNICAL SKILLS

Languages	TypeScript, Python, Java, C++, C, JavaScript, Solidity, GraphQL
Databases	SQL, firestore, MongoDB
Web Development	React, Django, Flask, NodeJS, ExpressJS, HTML, CSS, Django Rest Framework
App Development	React Native
Tools and Utilities	Git, Unix, AWS (EC2, S3, Route53, cloudfront, RDS), Firebase, Hardhat
AI, ML and Deep Learning	Tensorflow, Keras, scikit-learn, OpenCV

HONOURS AND AWARDS

- Smart India Hackathon Grand Finalist (National Level) - (August, 2022)
- Junction Asia Finalist (International Level), South Korea - (August, 2022)
- Winner of Smart India Hackathon (College Nomination Round) - (March, 2022)
- Winner of BitNBuild (National Level) - (January, 2023)
- Winner at Clash of Codes (National Level) - (March, 2023)
- Winner at Hackersteller (National Level) - (April, 2023)
- Winner at Edelweiss Global Markets Hackathon (College Level) - (July, 2023)
- Kavach Grand Finalist (National Level) - (August 2023)
- Junction Winner (International Level) - Helsinki, Finland - (November, 2023)
- ETH India Winner (International Level) - Bengaluru, India - (December, 2023)
- Winner at Datathon (National Level) - (February, 2024)