Aman Ranjan

+91 85916 46417 | ranjanaman0711@gmail.com | LinkedIn | GitHub

EDUCATION

BITS Pilani, Hyderabad Campus — Hyderabad, India
B.E. (Hons.) in Computer Science - CGPA 8.46/10.0 — *Oct. 2022 - May 2026*

New Bombay City School — Navi Mumbai, India
12th Grade - CBSE - 92.6% — *Apr. 2021 - Mar. 2022*

ASP Public School — Navi Mumbai, India
10th Grade - CBSE - 97.4% — *Apr. 2019 - Mar. 2020*

TECHNICAL SKILLS

Languages : Java, Python, C, C++, SQL (Postgres), JavaScript, HTML/CSS, ReactJS, Dart
Frameworks : ReactJS, NodeJS, Flutter, ExpressJS, NodeJS
Developer Tools : Git, Docker, GitHub Actions

EXPERIENCE

Summer Intern — May 2024 - Jul. 2024
Contenterra Software Pvt. Ltd. — *Hyderabad, India*
- Developed a **Flutter-based Personal Search Assistant (PSA) application** to access data from various sources such as Google Drive, DropBox and Evernote
- Implemented **unit tests** and **Github Actions** to automate running tests and building the application, reducing redundant development cycles by **50%**

PROJECTS

FestMate | *Python, FastAPI, ReactJS, PostgreSQL, Docker*

- Engineered a full-stack web-based fest management platform with a **FastAPI backend** and **ReactJS frontend**, capable of handling event registrations for **1000+ users in real-time.**
- Optimized database performance by implementing **PostgreSQL triggers and indexes**, reducing data retrieval times by 30%, ensuring efficient large-scale data operations.
- Leveraged Docker to containerize both frontend and backend, streamlining deployment and **reducing setup time by 50%.**

KanbanDone | *NestJS, NodeJS, Docker, Flutter*

- A Trello-like application that organizes Tasks into Lists and Boards to enhance productivity for projects
- Implemented the backend using **NestJS** and containerized it using **Docker**; the frontend is written in **Flutter.**
- Implemented Card drag-and-drop functionality and realtime synchronization via **Socket.io** to enhance productivity.

BITSBids | *ReactJS, NodeJS, Docker, Spring Boot*

- Developed an auction-based marketplace for **300+ BITSians** to buy and sell used goods, featuring a **real-time bidding system with secure transactions.**
- Implemented real-time chat functionality using **Socket.io**, facilitating instant communication between buyers and sellers.

POSITIONS OF RESPONSIBILITY

Technical Team Lead, SWD Nucleus
- Developed a payment gateway for various outlets on campus, catering to **5000+ students** and handling **1000+ orders per day** overall
- Implemented a outstation portal for smart entry-exit into the campus, reducing wait times and redundancies by 75%
- Built the **SWD BPHC** app, used by **3000+ students regularly** to access various student-related services
- Conducted monthly mess registrations for 5000+ students on campus