

SANKALP MUKIM

4th year B.Tech student

☎ [+91-9821041537](tel:+91-9821041537)

✉ sankalpmukim@gmail.com

🌐 [LinkedIn](#)

🐙 [GitHub](#)

EDUCATION

Vellore Institute of Technology, Vellore

B.Tech- Computer Science Engineering - **CGPA - 7.74**

September 2020 – August 2024

Vellore, India

G. D. Goenka School, Karkardooma

CBSE(Class 12th) - **Percentage - 94%**

April 2011 – March 2020

East Delhi, India

TECHNICAL SKILLS

Languages: Typescript, Go, Javascript, Python, C, C++

Technologies/Frameworks: ReactJS, GoFiber, GORM, NodeJS, GraphQL, AWS, Azure, GCP, React Native, Python, Django, Flask, FastAPI, Docker, PostgreSQL, MongoDB, Tailwind, NestJS

EXPERIENCE

ION Group

Software Engineer · Barracuda FX (Infra team)

Delhi NCR

Jan 2024 - Present

- **Made and deployed a full stack internal tool:** Contributed in team even before training was finished by building an internal tool for the support team using the industry standard tools such as Flask, MySQL, and ReactJS. Successfully integrated OAuth2.0 to securely provide access to the right users.
- **Latency Detection with Grafana:** Wrote an advanced log parser in Java and posted logical information to OpenSearch as a Database. Combined that with logic to calculate start-end time differential and used it to visualise how different components were producing different latencies.
- **General Induction:** Built a strong understanding of Capital Markets and their inner workings. Interacted with industry leaders in elaborate sessions to network and build domain knowledge.

North of Zero

Software Engineer · Autogenie

Remote

Jun 2023 - Aug 2023

- **Payment Gateway:** In charge of writing integration for the Amazon Payment Gateway (Formerly known as Payfort) service in both React website and React Native application. Used a combination of their SDK and web fundamentals to achieve the desired result.
- **Backend improvement and integration:** Create Transactions entity to reliably keep track of all transactions. Update state of each transactions using a combination of webhooks and health checks to provide the user and the admins with the most accurate information. Helps the stakeholders deal with financial transactions securely.
- **Integrate OTP in Auth:** Used AWS Lambda functions in AWS Cognito to setup a Custom Auth Flow designed for the purpose of Mobile OTP Authentication. Also used AWS SNS for sending the SMS.
- **Devops:** Be on call and handle deployments and CI/CD for multiple projects and help the team with integration best practices.

Indiahikes

Software Engineer · TrekVitals

Remote

Oct 2022 – Jan 2023

- **Google Sheets API Service:** Use the Google Sheets API to feed data and help prepare the dashboard using a Google Cloud Service Account. Due to code complexity and UX concerns, the best approach to securely interact with the data was to put this behind a NestJS Backend. Chose NestJS for structural simplicity and similarity to team's existing Java Backends. Validated Kaycloak tokens for checking authenticated requests.
- **Integrate Keycloak:** Replaced an existing simple Email Password deprecated Auth system with a more secure and versatile Keycloak powered auth system. Dealt with App links and mobile browser for third party authentication protocols (OpenID)
- **Shift and coordinate to new backend:** The main objective of the TrekVitals project was to revamp the app and move from the deprecated old backend to new Java Backend. I coordinated with multiple product and backend teams to manage features and change endpoints, data structures.

- **React App Development:** Worked on integrating a React-Admin dashboard application with a Hasura powered GraphQL backend. Made an ERP program to manage marketing leads from scratch.
- **Support Backend development and configuration:** Helped with AWS SNS integration for sending and verifying OTPs. Dealt with generating and validating JWTs. Improved and updated Postgres schema for dealing with feedback and improving features.

PROJECTS

Cryptic Hunt 🎮 | 🔗 | Typescript, Prisma, Postgres, Firebase, Node-Cache, Docker, AWS **Oct 2022**

- Lead a team of engineers to design and deploy a Frontend and a Backend multi layer system that had **over 500** Concurrent users.
- Designed an efficient and highly normalized Database schema along with several indexes to provide the full leaderboard in an efficient manner using caching.
- Configured database replicas to scale horizontally according to demand

Court Hero 🎮 | 🔗 | Raspberry Pi, Python, OpenCV, NextJS, Auth0, FastAPI, Docker, Websockets **Mar 2023**

- A distributed ML and Computer Vision (OpenCV) powered architecture that can scale horizontally as per need. It delivers information in real time to the end users using Web Sockets.
- Raspberry Pis analyse badminton courts in an efficient polling approach for most accurate results. It sends information to the backend. The frontend connects to backend using websockets and shows info in Real Time.

VIT WiFi Connect 🎮 | 🔗 | React Native **Mar 2023**

- Published an Android app that helps student connect to WiFi in a single click. Helps avoid VIT's Clunky WiFi portal site.

Numpuz 🎮 | 🔗 | React, Firebase, React Context, Dark Mode **Mar 2023**

- Multiplayer UI intensive interactive puzzle based game. Built using ReactJS with a Realtime leaderboard.

CERTIFICATIONS

- AWS Certified Solutions Architect Associate – AWS
- Practical Networking – Udemy
- Nginx – Udemy

EXTRACURRICULAR

Association for Computation Machinery – VIT **Dec 2021 – Apr 2023**

(Web Dev, Devops)

Vellore Institute of Technology, Vellore

- Worked on a game event backend that scaled for over 500 concurrent users reliably during the duration of the event.
- Scaled applications, handled devops for real userbase and following. Used and taught Typescript, Go, NodeJS, Prisma, ReactJS in my chapter.

VITspot **May 2021 – Jul 2022**

(Web Development)

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- Developed a student friendly calendar integration tool that saw 500+ daily active users.