

SANKALP MUKIM

4th year B.Tech student

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EDUCATION

Vellore Institute of Technology, Vellore

B.Tech- Computer Science Engineering

September 2020 – August 2024

Vellore, India

G. D. Goenka School, Karkardooma

CBSE(Class 12th)

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

- **Led AWS Cost Reduction Initiative:** Implemented AI-driven tools and automation strategies to reduce AWS expenses by 50%. Established company-wide best practices for efficient and responsible AWS resource management.
- **System Administration and DevOps:** Created and Managed internal development environments. Built automation using Python, Shell scripting, and Docker. Performed Database migrations, backups and restores. Deployed software on AWS using best practices such as Infrastructure as Code (IaC) and set up CI/CD pipelines.
- **Built and managed monitoring suite:** Built a complex and comprehensive monitoring tool that involved a Python based data pipeline, data categorization/refinement tool in React + Python + MySQL, PowerBI reports, and HTML Reports. These were used internally for monitoring system health as well as sent to clients.

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

- **Developed Google Sheets API Service:** Leveraged the Google Sheets API to populate a dashboard via a Google Cloud Service Account. Addressing code complexity and user experience considerations, the service was secured behind a NestJS backend for its structural simplicity and resemblance to the team's existing Java backends. Implemented token validation using Keycloak to ensure the security of 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

AWS Accounts Manager | | TypeScript, React, Plasmio, GitHub Actions, AWS Oct 2022

- Fully cross platform Browser extension with **50+** Active users.
- Automated deployments to all 3 browsers using CI/CD and Sophisticated API Integration for each.
- Best-in-class product with smooth UX with 0 compromise to any user's regular workflow. Built-in portability using export/import functionality.

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 Computing 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)

Vellore Institute of Technology, Vellore

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