SANKALP MUKIM

1 YOE Software Engineer

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EDUCATION

Vellore Institute of Technology,Vellore   **September 2020 – August 2024**
B.Tech- Computer Science Engineering   *Vellore, India*

G. D. Goenka School, Karkardooma   **April 2011 – March 2020**
CBSE(Class 12th)   *East Delhi, India*

TECHNICAL SKILLS

Languages: Java, Go, Typescript, Python, 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   Delhi NCR
Software Engineer · Barracuda FX (Infra team)   *Jan 2024 - Present*

- **Led AWS Cost Reduction Initiative**: Reduced our monthly AWS Cost by over **33%**(Over $11,000/month) by introducing techniques like Compute Savings Plans, S3 Storage Classes and Lifecycle Policies. Conducted a fine-grained S3 object scanning and deletion program of cleaning up over **30M Objects**.

- **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.

- **Low Latency FX Trading Software in Java**: Made a generic adaptable implementation to integrate Market Factory into my product as a low latency Liquidity Provider in Java. Worked with Stakeholders to enhance the central unified library published for use by other teams.

North of Zero   Remote
Software Engineer · Autogenie   *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.

Streak (YC W22)   Remote
Freelancer · Arbitrium   *October - November 2023*

- **User Attribution Platform**: Built an attribution analytics platform from scratch using Django, that built on UTM parameters and aggregated and compared data received from Meta and Google Adsense.

- **URL Shortener**: Built in-house URL Shortener to use for sharing links within our Advertisements, with enhanced targeted usage analytics for best insight.

PROJECTS

AWS Accounts Manager ⊙ | ☑ | Typescript, React, Plasmo, GitHub Actions, AWS   **Oct 2022**

- Fully cross platform Browser extension with **150+** Active users.

- Automated deployments to all 3 browsers using CI/CD and Sophisticated API Integration for each.

- Smooth elegant UX, minimal design, made with modern technologies.

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.

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 ☑

OTHER INTERNSHIPS

- IOTReady (January - March 2021)
- Indiahikes (October 2022 - January 2023)

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.