SHASHWAT M. DAS

Software Engineer & Proud Geek

@ shashwatmd.iitkgp@gmail.com   📞 (+91) 9609942333   ✉ Noida, Uttar Pradesh, India, 201307
🌐 shashwatmdas.me   @ShashwatMDas   in linkedin.com/in/shashwat-m-das-92bb8b156/

WORK EXPERIENCE

Software Development Intern | Krate

📅 Oct 2021 – Present   📍 WFH

- Developed the cross-platform childcare application using React Native
- Built the backend using **GraphQL** and AWS services like SES, S3, etc., implemented ElastiCache, reducing fetching time by upto **60%** for various APIs
- Integrated **Twilio WebRTC** for video calling feature and **Firebase** for chat
- Revamped and built a **horizontally scalable** server architecture using **Elastic Beanstalk** and a **CI/CD pipeline using CircleCI** and CodeDeploy decreasing deploy time by **80%** and server down time by **90%**

Software Developer Intern | MTX Group (MavQ)

📅 May 2021 – July 2021   📍 Hyderabad

- Built a Slack Bot and slack notification service using **Spring Boot, Kafka and MongoDB** with automated messaging system decreasing response time of support team by **40%** and engagement by around **20%**
- Built a common reusable components library **AngularJS and Typescript** which is being used in **5** different projects
- Built an listener-processor architecture to process heavy API calls asynchronously using Spring Boot and Kafka

Co-Lead Software Engineer | Genio Social Network

📅 Sept 2020 – April 2021   📍 WFH

- Built a social network application in **React Native(Typescript) & Flask**
- Built the user authentication and storage system using **Linkedin OAuth, OTP(AWS SNS), Email(AWS SES), and a NoSQL graph database Neo4j**
- Built the backend **microservice architecture**, with each microservice consisting of a dockerised Flask application. The microservice architecture was deployed and managed using **Kuberenetes(GKE)**
- Built a cloud storage & CDN service in the application (FE+BE) to store user specific assets using **AWS S3, CloudFront & Lambda**
- Built an image and video **compression asynchronous processor** architecture reducing media size by upto **80%**

Backend Engineering Intern | Wingify (VWO)

📅 Jan 2021 – March 2021   📍 New Delhi

- Developed an **npm package** (ReactJs) and a **Gatsby Plugin** respectively, to integrate VWO(vwo.com) smartcode directly into the application
- Created **cron jobs** to constantly optimize production MySQL table size, which reduced the everyday data size by around **35%**
- Changed the backend APIs to save heavy data in compressed format (GZIP encoding) reducing size by **40%** and decoding data when needed
- Handled the backend, created APIs, and updated old APIs, for Event Architecture deployment from VWO editor in PHP and MySQL

Software Development Intern | Reason Solutions

📅 June 2020 – Dec 2020   📍 WFH

- Developed a cross-platform app, for customer use using React Native being actively used in **2 countries**, namely Trinidad and Tobago, Malawi
- Developed and integrated various APIs like payment, tracking, service renewal, customer support, etc using AWS

RESPONSIBILITIES

Senior Manager | E-Cell IIT Kharagpur

- Head of Software Development team of Entrepreneurship Cell, IIT Kharagpur, directly supervising a team of **10 Developers**
- Led the team for the development of KGP Startup Community website and Internship Portal, while solely developed the complete backend in **Django**

SKILLS

Programming Languages: C/C++ | Python | Javascript | TypeScript | PHP | Java | Golang | Solidity | Rust
Cloud Services: Google Cloud | AWS | Firebase
Frameworks/Libraries: Django | Flask | NodeJS | Spring Boot | Gin(Golang) | GraphQL | ReactJS | React Native | Redux | C++ STL | Web3.js
DBMS/Softwares: MySQL | PostgreSQL | MongoDB | Neo4j | Firestore | DynamoDB
Others: Kubernetes | Docker | Redis | Kafka | Terraform | Linux | Ethereum | Solana Blockchain

EDUCATION

BTech in Biotechnology

Indian Institute of Technology(IIT), Kharagpur

📅 July 2018 – May 2022

PROJECTS

DevOps+Software Engineer | Divvy.bet

- Built **terraform** Architecture as Code, for GCP Compute configuring firewall, VPC, Load-Balancers and Auto Scaling with maximum of 10 VMs
- Built backend APIs using **Gin(Golang)** framework.
- Wrote **web3 functions** in Reactjs applications to interact with smart contracts.

Personal Portfolio

- Built a **ReactJS** based portfolio site and deployed it custom built using CI/CD system using **Github Webhooks, NodeJS, and shell scripts**.
- Used **Apache 2.0** to serve the static files of the website and **OpenSSL** to create a self-signed SSL certificate allowing HTTPS connections.

REFEREES

Piyush Mayank
@ Senior Product Manager, Flipkart
✉ piyush.mayank1@gmail.com
📞 (+91) 8861024466