

# SHASHWAT M. DAS

## Software Engineer & Proud Geek

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## 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 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 **Kubernetes(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 \(VVO\)](#)

Jan 2021 – March 2021      New Delhi

- Developed an **npm package** (ReactJs) and a **Gatsby Plugin** respectively, to integrate **VVO(vvo.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 **VVO 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

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