

# Shahreer Bin Amin

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## EXPERIENCE

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- **Shaped AI** New York  
*Software Engineer (Contract)* *March, 2023 - August, 2023*
  - Designed MySQL database schema, implemented REST API endpoint using Python, **FastAPI**, Typescript, NodeJS, Express and wrote unit tests with Pytest, Jest
  - Developed dashboard with **NextJS**, React, Typescript, Tailwind CSS, Radix UI for AI company providing real-time ranking APIs for recommendation
  - Integrated billing with Stripe, implemented SSO using NextAuth, graph visualization with Vsix, and collaborated with UI team for designing screen according to Figma
- **Turing (OpenAI)** December, 2022 - April, 2023  
*Python Trainer (Freelance)*
  - Trained **ChatGPT** LLM on Programming Assistant using Python, Super Calculator and HTTP Plugin modules
- **Qvin** Menlo Park, CA, United States  
*Software Engineer (Remote)* *November, 2021 - Present*
  - Designed and developed RESTful API services for healthcare application following software design principles using **SpringBoot**, Kotlin, Hibernate, JPA, PostgreSQL, Liquibase, PubSub in microservice architecture
  - Managed infrastructure on GCP (CloudSQL, Google Kubernetes Engine, Compute Engine, Cloud Storage, FHIR Health, BigQuery, Gitlab CI/CD Pipeline), disaster recovery, monitoring alerting with Prometheus and Grafana
  - Ensured API security with Cloud Armor WAF and HIPAA compliance with Drata
  - Developed dashboard using Angular Dart, Material UI, enabling role-based login (Admin, Logistics, Doctors, Laboratory personnel), and facilitating doctors in approving result analysis and releasing reports to customers.
  - Developed Flutter mobile app for clients integrating FHIR and Apple Health for streamlined health data access. Implemented lab results screen for viewing reports and health tracker for monitoring vital metrics
  - Automated testing with Flutter integration tests, REST Assured, and load testing using JMeter
- **Zoop.one** Pune, Maharashtra, India  
*Software Engineer (Remote)* *July, 2022 - January, 2023*
  - Developed dashboard for digital contract signing platform with **React**, Redux, NextJS, Tailwind CSS, ReChart and TypeScript
  - Implemented REST endpoint in the backend using **NodeJS**, Express, MongoDB
  - Integrated WhatsApp and Aadhar e-sign features in the existing digital e-sign feature
  - Handled DB architecture design, implementation of APIs, and communication between micro-services
  - Deployed and managed microservices in Google Kubernetes Engine (GKE), service mesh with Istio
  - Infrastructure management in GCP, CI/CD, assigning proper IAM and maintenance of MongoDB, Kafka, Redis, Elastic Search
- **MoEVing Urban Technology** Gurugram, Haryana, India  
*Software Engineer (Remote)* *June, 2021 - April, 2022*
  - Worked in the Backend (Python), Frontend (React, React Native), AWS, and Data Warehouse
  - Developed authentication, notification, billing, and payments services, and wrote unit test with Pytest
  - Implemented driver payout in React and bulk vehicle and driver upload feature
  - Managed AWS cloud (ECS, RDS, Elasticache, Route53, ELB, VPC), VPN server, Elasticsearch, CI/CD with Code Pipeline and overall security
  - Architected and implemented highly available Date Warehouse for electric vehicle telematics data in GCP using cloud function, Dataflow, Datastream, PubSub, partitioned Bigquery which handles 1 million records each day

- Used CDC(Change Data Capture) for replicating MySQL RDS data in the warehouse and created views in BigQuery and Metabase for analytics

## ● **Get Hooked Seafood**

Santa Barbara, CA, USA

*Software Engineer (Remote, Part-time)*

*August, 2020 - September, 2021*

- Developed Storefront and Dashboard using **React**, GraphQL, Apollo, Jest customizing Saleor E-commerce
- Implemented backend APIs in Python with Django framework, Celery, PostgreSQL, Redis cache, and GraphQL
- Deployed and managed server in AWS EC2 instance, S3, CI/CD with Jenkins

## ● **TigerIT Bangladesh Ltd**

Dhaka, Bangladesh

*Software Engineer QA*

*January, 2020 - December, 2022*

- Tested MQTT based end-to-end encrypted chat and WebRTC based call app Commchat
- Profiled Android, Embedded VR apps (Unity) performance with Android Studio profiler
- API testing using Postman, Load testing with JMeter, automation testing with Appium and POC with Jitsi Meet
- RCNN (Region-Based Convolutional Neural Networks) model performance, accuracy testing, GPU monitoring
- Tested ANPR (Automated Numberplate Recognition) and POC for running ML model on edge devices like Android, Jetson Nano
- Automated testing of Nepal government's electronic vehicle registration site with Selenium

## EDUCATION

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### **University of Dhaka**

Jan 2016 - Dec 2019

*Bachelor of Science (B.Sc.), Computer Science and Engineering*

*Dhaka, Bangladesh*

## TECHNICAL SKILLS

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- **Languages:** Javascript, Typescript, Python, C/C++, Dart, Java, Kotlin
- **DevOps:** AWS, GCP, Kubernetes, Nginx, Docker, Grafana, Prometheus, Jenkins, Terraform, CDK, Azure
- **Framework/Libraries:** ReactJS, NextJS, NodeJS, Express, GraphQL, TailwindCSS, RadixUI, Flutter, FastAPI, SpringBoot, React Native, Flask, Django
- **Database:** PostgreSQL, MySQL, Firestore, MongoDB
- **Testing:** Flutter Integration Test, Pytest, TestNG, Selenium, Appium, JMeter, Jest, REST Assured
- **Miscellaneous:** Kafka, Redis, Celery, BigQuery, Clickhouse, Serverless Cloud Function, Data Warehouse in GCP, PubSub, MQTT

## CERTIFICATIONS

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- AWS Certified Solutions Architect – Associate, 2021
- GCP Associate Cloud Engineer, 2022
- Architecting with Google Kubernetes Engine: Workloads, 2022
- Reliable Google Cloud Infrastructure: Design and Process, 2022