

# TANJIN ALAM

## SENIOR DEVOPS ENGINEER

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📍 Uttara, Dhaka

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### ABOUT ME

- Senior DevOps & Software Engineer with experience across multiple domains including HealthTech, FinTech, AI, Blockchain, and Data Platforms, working with both startups and large-scale enterprises.
- Designed, built, and operated high-traffic, distributed systems serving 3M+ users, 10K+ daily active users, and 20+ microservices in production environments.
- Hands-on experience across the entire product lifecycle—from ideation, system design, and architectural decision-making to development, testing, deployment, and production operations.
- Strong focus on scalable system architecture, cloud-native design, and best practices to reduce long-term maintenance costs and future architectural rework.
- Built and automated end-to-end CI/CD pipelines, covering build, testing, security checks, and Kubernetes-based deployments for containerized workloads.

### TECHNOLOGY SKILLS

- **Programming Language:** Javascript, Python, Go, Solidity, Shell & Rust.
- **Web Development:** FastAPI, ExpressJs, NestJs, React, SocketIO, Webhook, GraphQL, GRPC & RESTAPI.
- **Database:** MySQL, PostgreSQL, MongoDB, InfluxDB.
- **Cloud Services:** EC2, ECS, Lambda, S3, Route53, GKE, EKS, Terraform, Pulumi, Ansible.
- **Workflow Automation:** Apache Airflow
- **ORM Tools:** TypeORM, Prisma, Sequelize.
- **Web Scraping:** BeautifulSoup, Selenium & Playwright.
- **Testing & Automation:** Pytest, Mocha, Chai, Playwright, Appium, Postman, JMeter.
- **Containers & Orchestration:** Docker, Kubernetes.
- **Message Brokers:** Redis, RabbitMQ
- **Big Data & Frameworks:** PySpark, Pandas, Numpy & ArcticDB.
- **Machine Learning:** LLM, Deep-Learning & OpenCV.
- **Data Engineering & ETL:** DBT, SQL & Airbyte.
- **Alerting Tools:** Grafana, Kibana, Prometheus.
- **Blockchain Technologies:** Ethereum, Hyperledger Fabric, Hardhat, Hyperledger Besu & IPFS.
- **Web Servers:** Nginx, API Gateway.

### PROFESSIONAL EXPERIENCE

#### PULLSIGHT AI

📍 Bulgaria

#### SENIOR DEVOPS ENGINEER

📅 July 2025 – Present

##### Responsibilities:

- Set up and managed Google Cloud Platform (GCP) environments for development, staging, and production.
- Built and deployed development workloads using Compute Engine, Docker, and GitHub Actions CI/CD pipelines.
- Provisioned production and staging infrastructure using GKE and Terraform, implementing load balancers for scalable, multi-region traffic management

#### GRAMEEN HEALTHTECH LIMITED

📍 Dhaka, Bangladesh

#### SENIOR DEVOPS & SOFTWARE ENGINEER

📅 Sep 2024 – Oct 2025

##### Responsibilities:

- Deployed and maintained applications on AWS EKS, managing infrastructure and monitoring server performance.
- Managed application deployments on AWS EC2 and a local staging environment hosted on PowerEdge R430.
- Ensured consistency, reliability, and seamless transition between development, staging, and production systems.
- Developed reusable REST API's for mobile and web applications, enhancing scalability and maintainability.
- Designed and optimized relational and SQL, NoSQL databases, ensuring efficient data modeling and high performance.
- Researched and integrated cutting-edge tools to improve team productivity and streamline workflows.
- Utilized Jira and Bitbucket for effective project management and collaboration, ensuring seamless team alignment.

**ANCHORBLOCK TECHNOLOGY LTD.**

 Banani, Dhaka

**SENIOR SOFTWARE ENGINEER**

 Aug 2022 – Aug 2024

**Responsibilities:**

- Building and managing backend infrastructure for large-scale applications and services.
- Optimizing database structures, queries, and indexing for better performance and scalability.
- Implementing security measures to safeguard data and prevent unauthorized access.
- Collaborated with team members to build and ML product especially chatbot using NLP, RAG, Vector Search.
- Designed and implemented end-to-end system architecture for efficient data pipeline and processing, utilizing technologies such as Python, Apache Airflow, FastAPI.
- Collaborated closely with DevOps teams to containerize applications using Docker and manage database systems and Implement cluster Database for PostgreSQL and MongoDB.
- Implementing smart contract using Hyperledger Fabric, Ethereum , Hyperledger Besu technologies.
- Writing smart contract using solidity (ERC20, ERC721, ERC1155)
- Utilizing Truffle and Hardhat for debugging and deploying smart contracts.
- Implementing automation pipelines with Airflow.
- Utilizing GitHub Actions for CI/CD pipelines.
- Deploying backend infrastructure with Docker on AWS.

**HYPERLEDGER FOUNDATION**

 San Francisco, California (Remote)

**BLOCKCHAIN RESEARCHER - LINUX FOUNDATION**

 July 2023 – Till now

**Responsibilities:**


- Working as a mentor to guide the mentee.
- Working with new ERC Standard for education (RWA)
- R&D for the scope of tokenization of education system
- Writing E2E testing for entire blockchain eco-system system.
- Writing clean, tested code to meet quality standards.
- Designing learning token using token taxinomoy framework
- Implement learning token using hyperledger Besu & Solidity
- Successfully implemented the POC using hybride blockchain system
- Using kaleido as cloud infrastructure

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**SHAFA CARE LTD**

 Dhaka, Bangladesh

**BACKEND ENGINEER**

 Jan 2021 – Sept 2022

**Responsibilities:**

- Responsible for implementing the backend functionalities and essential API's using NodeJS, SequelizeORM and MySQL.
- Implemented admin dashboard functionalities using react.
- Write API documentation using swagger
- Discussing with product manager and team lead to define project features and ensure successful launches.
- Mentoring junior engineers and fostering a culture of learning and growth.
- Managing repositories and version control processes to maintain code integrity.
- Used Digital Ocean for cloud service and PM2 for deployment monitoring.
- Created a chatbot tailored to predefined data by accurately matching user intents.

## NOTABLE PROJECTS

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**Project:** Shukhee your 360 degree Healthcare Expert

**Role:** Senior Software Engineer

**Technologies:** NestJs, Python, ExpressJs, Java , MySQL, Websocket, EKS

**Project Type:** Product

**Overview:** Shukhee is a pioneering e-health platform launched by Grameen HealthTech Limited (GHL). At Shukhee, we are dedicated to revolutionizing the way you access healthcare. Our mission is to provide convenient, affordable, and high-quality medical services to everyone, no matter where you are.

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**Project:** Pullsight AI – Open Source AI Code Reviewer

**Role:** Senior Devops & Software Engineer

**Technologies:** NestJS, Python, Terraform, Docker, GCP, GKE, GitHub Actions, Qwen-Code, Claude CLI

**Project Type:** Product

**Overview:** Pullsight AI is an open-source, developer-centric AI platform designed to cut code review time and bugs in half—without compromising code privacy. The platform lives entirely within your infrastructure and delivers initial AI-driven code reviews within minutes. It integrates with version control systems to analyze source code, detect issues, and suggest improvements in real time, while providing prompt-based automation and observability tools for modern engineering teams.

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**Project:** Swap-Tech - Data aggregation & Analysis Platform

**Role:** Senior Backend Engineer

**Technologies:** Airflow, Python, Fast-API, Socket, DBT, MongoDB, Docker, Pandas

**Project Type:** Product

**Overview:** SwapTech is a cutting-edge platform designed for in-depth analysis and optimization of hedge fund operations. This project aims to empower financial professionals with comprehensive tools for strategic decision-making, risk management, and performance enhancement within the hedge fund domain.

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**Project:** MFS Monitoring Dashboard(Bkash)

**Role:** Senior Backend Engineer

**Technologies:** Python, NestJS, ReactJS, GRPC, InfluxDB, Prometheus & MySQL

**Project Type:** Service

**Overview:** An advanced platform that automates the testing and monitoring of connectivity and service status across multiple Mobile Network Operators (MNOs).

**Project:** Ebhubon E-Commerce Marketplace

**Role:** Backend Engineer

**Technologies:** Node.js, Nest.js, TypeOrm, MySQL, React.js, HTML, CSS & Ant Design pro

**Project Type:** Product

**Overview:** Ebhubon Limited is an ultimate e-commerce multi-vendor marketplace where customers and sellers can connect to each other.

**Project:** Anchorbooks - AI & Blockchain Powered Accounting Software

**Role:** Senior Software & Blockchain Engineer

**Technologies:** Hyperledger Fabric, NestJs, PostgreSQL, ExpressJs

**Project Type:** Product

**Overview:** Anchorbooks revolutionizes accounting with its advanced features, including Magic Bookkeeping powered by Artificial Intelligence for seamless invoice, bills or expense creation from simple text inputs. Integrated with WhatsApp for easy accessibility. You can effortlessly migrate data from Zoho Books to Anchorbooks with just one click.

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**Project:** FinNLP

**Role:** Senior Backend Engineer

**Technologies:** FastAPI, NestJs, PostgreSQL, ReactJs, Machine Learning

**Project Type:** Product

**Overview:** FinNLP is a state-of-the-art project focused on harnessing Natural Language Processing (NLP) to analyze and interpret sentiment from financial news sources. This tool employs advanced machine learning techniques to provide users with real-time insights into market sentiment, aiding in more informed and timely financial decision-making.

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**Project:** Shafa Care

**Role:** Backend Engineer

**Technologies:** Node.js, Express.js, Sequelize ORM, MySQL, React.js, HTML, CSS, Flutter

**Project Type:** Product

**Overview:** Developed a telemedicine platform enabling secure video consultations between patients and certified doctors, supporting appointment management, real-time communication, and scalable healthcare service delivery.

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**Project:** SCM Prototype(Supply Chain Management)

**Role:** Blockchain Engineer

**Technologies:** Hyperledger Sawtooth , NodeJs, ReactJs, Solidity

**Project Type:** Research

**Overview:** It is a supply chain management solution based on blockchain technology. We have implemented its prototype on different blockchain with end to end tracking.



## REMARKS

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-  **KCNA Certificate**  
Kubernetes and Cloud Native Associate (KCNA) Certification
-  **CKA Certificate**  
Certified Kubernetes Administrator (CKA)
-  **CKAD Certificate**  
Certified Kubernetes Application Developer (CKAD)
-  **KCSA Certificate**  
Kubernetes and Cloud Native Security Associate (KCSA)
-  **CKS Certificate**  
Certified Kubernetes Security Specialist (CKS)
-  **1st and 2nd Finalist – Blockchain Olympiad Bangladesh 2023 (Anchorblock\_Crandor & Anchorblock\_Sigma)**  
National-level recognition for competitive blockchain innovation and problem-solving
-  **Thesis Paper - Blockchain**  
A Secure and Optimized Healthcare Data Governance Framework Leveraging Hyperledger Fabric Blockchain
-  **Hyperledger Mentorship Spotlight: Learning Tokens in Hyperledger Besu**  
Featured by LF Decentralized Trust for work on token implementation using Hyperledger Besu
-  **Articles - Medium**  
I write article to have depth knowledge of the topic & to share my knowledge
-  **Open-Source Contributor - Linux Foundation Learning-Token**  
I am actively working with Linux foundation mentorship program
-  **Open-Source Contributor - InterWorkAlliance**  
I continue to contribute to the token taxonomy framework with the goal of establishing a universally recognized standard for tokenization

## PUBLICATIONS

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-  M. M. Alam, M. S. Islam, S. Muntaha, **M. T. Alam** and K. J. Tanha, "**A Secure and Optimized Healthcare Data Governance Framework Leveraging Hyperledger Fabric Blockchain**," 2023 26th International Conference on Computer and Information Technology (ICIT), Cox's Bazar, Bangladesh
-  Alfonso Govela, **MD Tanjin Alam** , Diana Barrero Zalles and Jackson Ross " **Learning Token**" GBBC (Global Blockchain Business Council), Linux Foundation

## EDUCATION

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BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING

International University Of Business Agriculture and Technology, Bangladesh (IUBAT)

 2020