Protick Roy

Dhaka, Bangladesh | protickrr@gmail.com | +8801301212424 | linkedin.com/in/protickroy
github.com/protickr

SUMMARY

Software Engineer with six years of experience building SaaS, EdTech, ERP, and real-time communication platforms. Skilled in designing scalable backend systems, APIs, and cloud solutions with a track record of improving performance, implementing secure workflows and ensuring high availability. Passionate about writing clean, maintainable code and delivering reliable software that makes a meaningful impact.

TECHNICAL SKILLS

Languages:	JavaScript, TypeScript, Python, PHP, SQL
Frontend/Frameworks:	HTML5, CSS3, SCSS, React, Next.js, Tailwind, Express.js, Fastify, Django, Laravel
Databases/ORM:	MySQL, MongoDB, Redis, Prisma, TypeORM, SQLAlchemy
Cloud/DevOps:	Docker, Kubernetes, Nginx, Apache, GCP, AWS, DigitalOcean, CI/CD
Tools/Practices:	Git, GitHub/GitLab, Postman, Agile/Scrum
Environments:	Linux, macOS
Preferred Stack:	TypeScript	Fastify (REST/JSON)	Next.js	MySQL + Prisma	Docker & K8s	GCP

EXPERIENCE

Software Engineer   Aug 2023 – Present
Ngaze Inc. | Dhaka, Bangladesh

- Translated stakeholder requirements into data models and production-ready features, achieving near-perfect alignment with customer needs and reducing rework.
- Engineered stateless, type-safe REST APIs with consistent validation/serialization and data integrity guarantees, cutting integration bugs reported by frontend teams by 45% and speeding feature integration.
- Built a content versioning system that let admins publish, update and archive without impacting live content, reducing publishing errors by 90% and eliminating rollback downtime.
- Integrated payment gateways in a modular framework, enabling new gateways to be added in under a day and reducing integration effort by 70%.
- Restructured the backend into a modular, standardized architecture, improving maintainability, scalability and onboarding for new developers.
- Implemented BullMQ job queues for reporting/analytics, improving dashboard load times and boosting responsiveness for users.
- Ensured reliability of CI/CD pipelines and Kubernetes workloads on GCP by troubleshooting failures and monitoring logs for live issues, and configured/deployed new services for staging and production.
- Partnered with frontend developers to refine API usability and ensure smooth adoption during integration.
- Collaborated with senior engineers on architecture decisions, securing approvals for major feature implementations.

TypeScript, Fastify, React, Next.js, SCSS, BullMQ, Stripe, Redis, Docker, Kubernetes, GCP, AWS, GitHub Actions

Software Engineer (Contract)   Oct 2020 – Jul 2023
Omnisoft Lab | Dhaka, Bangladesh

- Collaborated with the core development team on project-based contracts, often acting as a lead by unblocking teammates, reviewing designs and guiding implementation across system architecture, backend APIs, frontend integrations, cloud deployments and monitoring.
- Established project structures, version control workflows, development pipelines and deployment processes to ensure consistent and reliable delivery.
- **Dollabills** (dollabills.club): Social platform with real-time chat and video conferencing; implemented real-time messaging, audio/video calling and streaming features, while optimizing queries and ensuring scalable performance. Integrated PayPal and Stripe payments.

- **Inventory & HR Management System** (Shamima Rashid Enterprise, offline): Designed role-based authorization, HR and inventory modules; introduced FIFO stock clearance methodology despite client ambiguity, enabling accurate reporting and stock flow. Deployed and maintained on DigitalOcean.
- **CPRExchange** (cprexchange.com): Recommerce marketplace with product listings and secure payments; implemented OTP service for authentication and managed staging, production deployments.

TypeScript (Express.js, Next.js, TypeORM), PHP (Laravel), MySQL, AWS (Chime, Kinesis, S3, EC2, Route53), DigitalOcean, PM2, Nginx, WebRTC, WebSocket

Junior Software Engineer   Sep 2019 – Apr 2020
Divine IT Limited | Dhaka, Bangladesh

- Developed ERP modules, starting with CRUD features and later advancing to core engineering tasks, integrating the in-house Central Authentication System and resolving client-specific ERP bugs.
- Built an attendance device monitoring system to ingest and normalize multi-model device data, sync with ERP and improve HR reporting accuracy.
- Collaborated directly with business analysts, product managers, IT/deployment teams and executives; wrote deployment documentation to support cloud rollouts.

Python (Django, SQLAlchemy), HTML, JavaScript, jQuery, CSS, Git, GitLab, MySQL, SQLite, Agile/Scrum, Linux Mint

Junior Software Engineer   Oct 2018 – Jul 2019
BFIN IT Limited | Dhaka, Bangladesh

- Developed and maintained ERP modules using PHP, JavaScript, jQuery and Bootstrap, ensuring stability and usability for business operations.
- Integrated payment gateways and third-party APIs to enable secure online transactions and expand ERP functionality.
- Collaborated with senior engineers on debugging, feature rollouts and client requests, gaining experience in full-stack workflows and production deployments.

PHP, JavaScript, jQuery, Bootstrap, MySQL

Projects

- **Video Surveillance & Security System** (github.com/protickr/video_surveillance_and_security_system): IoT system using computer vision to detect motion in real time and send email alerts; included Raspberry Pi setup and cloud deployment.
  Python, OpenCV, Raspberry Pi, Shell, PHP, JavaScript
- **The Wild Oasis** (oasisprotick.vercel.app/login): Hotel management app with secure auth, booking flows and admin dashboard; state managed with Redux and deployed on Vercel.
  React, Redux, Supabase, styled-components, Vite, Vercel

Education

Bachelor of Science in Computer Science and Software Engineering
American International University Bangladesh   Sep 2013 – Jan 2018

Reference

Sabbir Ahmed
Chief Technology Officer
Ngaze, Inc.
sa@ngaze.co