Protick Roy

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

Summary

Software Engineer with over 5 years of experience building SaaS, EdTech, ERP, and real-time communication platforms. Designs scalable backends, APIs, and cloud solutions; improves performance, hardens workflows, and ensures high availability. Focused on clean, maintainable code and reliable delivery.

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 ~30% and speeding feature integration.
- Built a content versioning system to publish, update, and archive without impacting live content, reducing publishing errors by ~25% 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%.
- 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; troubleshot failures, added monitoring, and deployed new services for staging and production.

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

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

- Led project work across backend APIs, frontend integrations, cloud deployments, and monitoring; set up repos, pipelines, and release processes.
- **Dollabills** (dollabills.club): Built real-time messaging, voice/video calling, and streaming; optimized queries for scale.
- **CPRExchange** (cprexchange.com): Integrated PayPal/Stripe, implemented OTP auth, and managed staging deployments.
- **Inventory & HR Management System** (Shamima Rashid Enterprise, offline): Designed role-based authorization, HR and inventory modules; introduced FIFO stock clearance; deployed and maintained on DigitalOcean.

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

- Built ERP features and integrated the in-house Central Authentication System; resolved client-specific ERP bugs.
- Developed an attendance device monitoring system to ingest/normalize multi-model device data, sync with ERP, and improve HR reporting.

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

Projects

- **Video Surveillance & Security System** (github.com/protickr/video_surveillance_and_security_system): IoT Computer Vision system that detects motion in real time and emails snapshot alerts (Raspberry Pi + cloud).
- **The Wild Oasis** (oasisprotick.vercel.app/login): Hotel management app with secure auth, booking flows, and admin dashboard (React/Redux, Vercel).

Technical Skills

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

Education

Bachelor of Science in Computer Science and Software Engineering
American International University–Bangladesh   Sep 2013 – Jan 2018   CGPA: 3.89 / 4.00