

EDBERTO TOSOY

Software Engineer | Full Stack & Cloud

edberto.tosoy@gmail.com • 0960-822-3122 • edtosoy.com • github.com/edtosoy • linkedin.com/in/edtosoy

PROFESSIONAL SUMMARY

Software Engineer with professional experience developing and supporting production banking applications used by internal tellers and administrators. Experienced in React, TypeScript, REST APIs, automated testing, production debugging, Agile development, and cross-functional delivery. Since Metrobank, expanded into full-stack and cloud-native engineering, building projects with Node.js, NestJS, PostgreSQL, Docker, AWS, Terraform, Kubernetes, and GitHub Actions. Focused on building maintainable applications and understanding how application, infrastructure, deployment, and operational layers work together.

WORK EXPERIENCE

Software Engineer — Metrobank (via 98labs Inc.)

Feb 2021 – Jul 2022

- Developed and maintained production banking applications supporting teller and administrative workflows.
- Developed and maintained frontend features using React and TypeScript, integrating REST APIs with Redux, Ant Design, React Hook Form, and SCSS.
- Investigated and resolved production defects, tracing issues across application logic and user workflows.
- Developed and maintained Cypress end-to-end tests covering critical banking workflows and regression scenarios.
- Collaborated with developers, QA engineers, and business analysts in an Agile environment, participating in code reviews and technical discussions.
- Refactored an FX transaction charge component that had grown to approximately 1,600 lines as requirements evolved and incremental fixes accumulated; consolidated its logic, reworked form-state handling, introduced debouncing, and reduced it to just over 700 lines.

FULL-STACK & CLOUD PROJECTS

Hospital Management System — Full Stack / AWS / Kubernetes

- Built a full-stack hospital management platform with Next.js, React, TypeScript, NestJS, PostgreSQL, and Prisma, implementing authentication, patient management, appointments, billing, and queue management.
- Designed REST APIs with JWT authentication, role-based authorization, DTO validation, Swagger documentation, and real-time updates with Socket.IO.
- Deployed containerized frontend, backend, and database workloads to a self-managed Kubernetes cluster on AWS EC2.
- Provisioned AWS infrastructure with Terraform and automated application delivery using GitHub Actions, OIDC, ECR, and Kubernetes.
- Deployed PostgreSQL with persistent storage using a Kubernetes StatefulSet; configured Prometheus/Grafana monitoring and automated host provisioning with Ansible.

NestJS Microservices Platform — NestJS / RabbitMQ / PostgreSQL / Prisma

- Built a gateway-based microservices platform with NestJS, consisting of authentication, catalog, search, and media services.
- Designed service communication using RabbitMQ, combining synchronous requests with event-driven workflows.
- Built an event-driven search pipeline maintaining a denormalized product index from catalog events.
- Implemented JWT authentication, refresh-token persistence, role-based access control, and permission guards
- Implemented persistence with PostgreSQL/Prisma, media storage with Cloudinary, and shared DTOs, guards, interfaces, and libraries across services.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Go, Bash

Frontend: Angular, React, Next.js, Tailwind CSS

Backend: Node.js, NestJS, FastAPI, Express.js, REST APIs, RabbitMQ

Databases: PostgreSQL, MongoDB, Prisma, Drizzle ORM

Cloud & DevOps: AWS, Docker, Kubernetes, Terraform, GitHub Actions, Prometheus, Grafana

Systems & Tools: Linux, Git, Neovim, Tmux, NixOS

EDUCATION

FEU Roosevelt Marikina — Bachelor of Science in Information Technology

June 2025