

Carmelo Ellezandro R. Atienza

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TECHNICAL SKILLS

Languages: PHP, JavaScript/TypeScript, Python, C, SQL, Java, HTML/CSS
Libraries & Frameworks: React, Next.js, React Native, Angular, Ionic, Capacitor, Symfony, Django, Flask, Spring Boot, TensorFlow
Technologies: Git, MySQL, PostgreSQL, MongoDB, Redshift, AWS (S3, SQS, Lambda), Grafana, Prometheus, Kibana, Redash, Thrift

PROFESSIONAL EXPERIENCE

- Junior Software Engineer**, *Freelancer.com (Trust & Safety Team)* July 2025 - Present
PHP, Angular, Python, Apache Thrift
- Led end-to-end development of WhatsApp as a phone verification gateway across a microservices architecture — PHP/Python backend integration, Angular frontend UI, Redash observability dashboards, and webhook loggers — achieving 97% cost reduction per message over SMS and driving ~\$14K USD in total savings
 - Engineered a rotating SMS gateway system that dynamically switches providers on each phone verification retry, reducing average attempts per user from 1.44 to 1.19 and reducing ~35K SMS request volume on Phone Verification, saving ~\$4K USD
 - Maintained Prometheus alerts and monitored real-time Grafana, Kibana and Redshift dashboards to identify SMS pumping attack vectors; configured automated rulesets in the phone verification rule engine to block fraudulent attempts, reducing abuse exposure
 - Actively developed and maintained core security features including Phone Verification, 2FA, and Email systems; served as code reviewer for Trust & Safety-related changes across cross-functional teams
- Full-Stack Software Engineer**, *Enstack Technologies Inc. (Part-Time)* Jun 2024 - Mar 2025
TypeScript, Angular, Flask, Django
- Developed an in-house internal admin dashboard to monitor company transactions, orders and inventory, reducing operational costs by 30% and streamlining workflows by 40%
 - Engineered a secure inter-service communication between Flask and Django backends protected by token-based authentication, securing 20+ endpoints in a Microservice architecture
 - Migrated Kafka Producer with AWS SQS + Lambda for scalable real-time event processing for 10+ events; enabled asynchronous tasks via serverless functions to prevent blocking in high-volume database operations
 - Optimized KYC document upload service by hardcoding PDF template binaries and reconstructing signed documents server-side, replacing full-page screenshot uploads to AWS S3 and reducing file sizes by 97%
- Software Engineer Intern**, *Dormy (Internship)* Dec 2024 - Mar 2025
Next.js, React Native, Expo
- Joined founding engineering team for mobile development, shipping 2+ core features weekly with Product team
 - Migrated existing Next.js, Expo projects into a Turborepo monorepo, modularizing 30+ shared utilities into reusable packages
 - Engineered scalable, production-grade UI components including a dynamic bottom drawer system, multi-time store hours picker, and message template maker

PROJECTS

- Shortly**, <https://github.com/aritako/shortly> Mar 2025 - Jun 2025
Java, Spring Boot, TypeScript, Next.js, PostgreSQL
- Built a fullstack URL shortener app: Spring Boot backend with JWT auth, PostgreSQL database, and Next.js frontend
 - Engineered secure RESTful APIs using Spring Security with role-based access control, refresh token management, and BCrypt encryption
 - Designed scalable PostgreSQL schemas with JPA/Hibernate ORM, modeling user accounts, login sessions, and URL tracking
- SuperPot**, <https://github.com/aritako/superpot> Apr 2024 - Jun 2024
TypeScript, Next.js, Firebase
- Engineered a smart plant-monitoring system using an ESP8266 microcontroller integrated with Firebase via HTTP protocols
 - Built a Next.js web dashboard to display real-time environmental sensor data for remote plant health monitoring

EDUCATION

University of the Philippines Diliman Quezon City, Philippines
Bachelor of Science in Computer Science Sep 2021 - Jul 2025
GWA: 1.29 *Magna Cum Laude Standing*

LEADERSHIP

- Algolympics Head**, *Intercollegiate Competitive Programming Contest Association for Computing Machinery - UP Diliman Inc. (UP ACM)* Dec 2023 - Apr 2024
- Directed UP ACM's flagship national competitive programming event; grew team participation by 33% and total participants by 54% through strategic outreach and collaboration with National Olympiad in Informatics (NOI) problem setters