

Carmelo Ellezandro R. Atienza

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EDUCATION

University of the Philippines Diliman

Bachelor of Science in Computer Science

GWA: 1.29

Quezon City, Philippines

Sep 2021 - Jul 2025

Magna Cum Laude Standing

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, C, SQL, Java, HTML/CSS

Libraries & Frameworks: React, NextJS, React Native, Angular, Ionic, Capacitor, Django, Flask, Spring Boot, TensorFlow

Technologies: Git, MySQL, PostgreSQL, MongoDB, Amazon Web Services

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer | Enstack Technologies Inc. (Part-Time)

Sept 2024 - Mar 2025

TypeScript, Angular, Flask, Django, Ionic, AWS SQS, AWS Lambda

- 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 via internal APIs protected by token-based authentication, securing 20+ endpoints in a Microservice architecture system
- 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

Software Engineer Intern | Dormy (Internship)

Dec 2024 - Mar 2025

React, NextJS, React Native, Expo, Turborepo

- Joined Dormy's founding engineering team for mobile development, shipping 2+ core features weekly in coordination with Product team
- Migrated existing NextJS and Expo projects into a unified Turborepo monorepo, modularizing 30+ shared utilities into reusable internal packages
- Engineered scalable, production-grade UI components, including a dynamic bottom drawer system, multi-time store hours picker, and message template maker

Software Engineering Intern | Enstack Technologies Inc. (Internship)

Jun 2024 - Aug 2024

TypeScript, Ionic, Angular, Flask, Datadog

- Resolved 3+ tickets a week which involves critical live bugs in production, such as tracking infrastructure issues via Datadog and hotfixing frontend issues
- Optimized document AWS S3 uploader service of the app, reducing byte size of files by 97% and increasing document responsiveness by 93%
- Implemented new Product Report, Income Report, and Expense Report features in live app, using dynamic graphs to display user data

PROJECTS

SuperPot | TypeScript, NextJS, Firebase | [GitHub Link](#) | [Deployment Link](#)

Apr 2024 - Jun 2024

- Engineered a smart plant-monitoring system using an ESP8266 microcontroller integrated with Firebase via HTTP protocols
- Built a NextJS web dashboard to display real-time environmental sensor data for remote plant health monitoring
- Designed an intuitive, consumer-facing interface optimized for responsiveness and ease of use across devices

RollCall | TypeScript, React, Ionic, Capacitor, Supabase | [GitHub Link](#)

Aug 2023 - May 2024

- Developed a cross-platform native mobile app prototype using Ionic-React and CapacitorJS
- Enabled seamless student attendance via QR code scanning and integrated camera-based check-ins with Supabase as backend
- Implemented a centralized system for professors to generate QR codes and monitor attendance trends across multiple classes

Analysis on Tweets Supposing the "Golden Era" | Python | [GitHub Link](#)

Mar 2023 - Jun 2023

Presented at Watch The Facts! A Mini-Conference on Data Science and Disinformation in the Philippines

- Leveraged NLP to analyze sociopolitical narratives in scraped Twitter data; uncovered dominant themes through *Latent Dirichlet Allocation* (LDA) and *t-SNE* visualization
- Applied *Chi-square goodness of fit* test to evaluate topic prevalence against expected historical discourse patterns
- Recognized with Best Portfolio award for impactful data presentation

VOLUNTARY EXPERIENCE

Algolympics Head | Intercollegiate Competitive Programming Contest

Dec 2023 - Apr 2024

- Directed the flagship national competitive programming event of UP ACM, leading the cross-functional steering committee
- Boosted national reach; increased team participation by 33% and total participant count by 54% through strategic outreach and operations
- Spearheaded technical collaboration with *National Olympiad in Informatics* (NOI) problem setters to ensure high-quality, IOI-style contest environment