Carmelo Ellezandro R. Atienza

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EDUCATION

University of the Philippines Diliman   Quezon City, Philippines
Bachelor of Science in Computer Science   *Sep 2021 - Jul 2025*
Current GWA: 1.29   *Magna Cum Laude Standing*
Algorithms and Complexity Laboratory   *Undergraduate Researcher*

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, C, SQL, HTML/CSS, Gleam, Julia
Libraries & Frameworks: React, NextJS, React Native, Angular, Ionic, Capacitor, Django, TensorFlow
Technologies: Git, Supabase, Firebase, Vercel, Datadog, pgAdmin, MySQL, PostgreSQL, MongoDB, Amazon Web Services
Developer Tools: GitHhub, Visual Studio Code, Typst, LaTeX, Oracle VM, Windows Subsystem for Linux (WSL), PuTTY

PROFESSIONAL EXPERIENCE

Software Engineer Intern | *Dormy (Internship)*   Dec 2024 - Present
React, NextJS, React Native, Expo, Turborepo
- Joined the founding team of Dormy's mobile app, coordinating with the product team in rapidly deploying and 2+ core features a week
- Migrated Next.js and Expo codebases into a Turborepo monorepo, consolidating over 30+ shared utilities into internal packages for types, validators, and tRPC endpoints.

Full-Stack Software Engineer | *Enstack Technologies Inc. (Part-Time)*   Sept 2024 - Jan 2024
TypeScript, Angular, Flask, Django, Ionic, AWS S3, AWS Lambda
- Developed an in-house internal admin dashboard to monitor company transactions, orders and inventory using Angular, reducing operational costs by 30% and streamlining operations by 40%
- Engineered an API proxy for two-way communication between Django and Flask backend systems, proxying 20+ API endpoints between the two and implementing a token-based authentication system for shared protected routes.
- Migrated Kafka Producer to AWS SQS with AWS Lambda processor integration, ensuring reliable and scalable real-time user event synchronization and future-proofing over 10+ events
- Resolved complex bugs involving out-of-sync products in an offline-first app, ensuring correct data synchronization across offline and online states for over 50+ merchants

Software Engineering Intern | *Enstack Technologies Inc. (Internship)*   Jun 2024 - Aug 2024
TypeScript, Angular, Flask, Datadog
- Resolved 3+ tickets a week which involves critical live bugs in production, such as tracking API and AWS Lambda issues via Datadog and hotfixing frontend issues in an Ionic Angular-based app
- 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 graphs and tables to visually display user data

PROJECTS

SuperPot | *TypeScript, NextJS, Firebase* | GitHub Link | Deployment Link   Apr 2024 - Jun 2024
- Built an IoT device with ESP 8266 microcontroller hooked to Firebase via HTTP protocols
- Developed NextJS webapp for monitoring realtime sensor data from Firebase backend
- Manifested UI/UX skills in designing the webapp for consumer use

RollCall | *TypeScript, React, Ionic, Capacitor, Supabase* | GitHub Link   Aug 2023 - May 2024
- Developed a full-stack, native application using Ionic-React as frontend with CapacitorJS runtime
- Allowed students to mark class attendance via QR-Code scan through native mobile app features
- Provided an attendance management system and QR-Code generator for professors, tracking student attendance across different 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
- Used Natural Language Processing to process API-scraped Tweets
- Clustered common topics via *Latent Dirichlet Allocation* and *t-Distributed Stochastic Neighbor Embedding*
- Modeled dataset via *Chi-square goodness of fit* test
- Awarded as Best Portfolio

VOLUNTARY EXPERIENCE

Algolympics Head | *Intercollegiate Competitive Programming Contest*   Dec 2023 - Apr 2024
- Increased participating teams by 33%, increased participant count by 54%
- Collaborated with *National Olympiad in Informatics* (NOI) Problem Setters in preparing contest problems
- Led steering committee in Logistics and Technicals