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 — *Laboratory Researcher*

TECHNICAL SKILLS

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

PROFESSIONAL EXPERIENCE

Software Engineering Consultant | *Enstack Technologies Inc. (Part-Time)* — Sept 2024 - Dec 2024
- 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%
- 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
- Resolved 3-4 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

Neural Network Models for Electrodes | *Jupyter Notebook, TensorFlow* — May 2024 - Jun 2024
https://github.com/aritako/binary-signal-classification
- Built, trained and tested MLP, CNN and RNN models via TensorFlow
- Conducted in-depth analysis between neural networks in performing binary classification
- Performed Hyperparameter Tuning, achieving 99.22% accuracy on best chosen model

SuperPot | *TypeScript, NextJS, Firebase* — Apr 2024 - Jun 2024
https://github.com/aritako/superpot https://mysuperpot.vercel.app/
- 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* — Aug 2023 - May 2024
https://github.com/aritako/rollcall
- 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 for professors, tracking student

Analysis on Tweets Supposing the "Golden Era" | *Python* — 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