AARON DAVE D. CALLANGA

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SUMMARY

Computer Science student and part-time Associate Software Engineer with experience building production tools, APIs, and automations. Works across Java/Spring backends and mobile with React Native and Kotlin. Experienced with data pipelines and scalable backend systems, with increasing focus on AI engineering and LLM apps on production data.

EDUCATION

Polytechnic University of the Philippines, Sta. Mesa, Manila
Bachelor of Science in Computer Science (BSCS), 2024 - Present
Technological Institute of the Philippines, Cubao, Quezon City
Science, Technology, Engineering, and Mathematics (STEM), Graduated 2024

SKILLS

Frontend Development: React.js, Next.js, TypeScript, Tailwind CSS
Mobile Development: Kotlin, Jetpack Compose, React Native, Android
Backend & API Development: C#, .NET 8, Java, Spring Boot, Spring Cloud, gRPC, Swagger, NestJS
Testing & Quality Assurance: JUnit, Jest, Playwright
Data & Messaging: SQL, PostgreSQL, MongoDB, Supabase, Neon, Redis, Apache Kafka
Cloud & DevOps: AWS, Docker, Kubernetes, Git, GitHub Actions, ArgoCD

PROFESSIONAL EXPERIENCES

GoRocky Poblacion, Makati City, Philippines
Associate Software Engineer (Part-Time) October 2026 – Present

- Currently building an **Airflow-orchestrated ETL** that de-identifies production data into an **analytics warehouse**, plus an **internal AI application** for querying business metrics **without exposing customer PII.**
- Built an automatic sync from **J&T**, **SPX**, and **courier sheets** into ERP, so operations can spot **missing orders**, **stale statuse**s, and **delivery issues** in one place.
- **Developed finance reconciliation automation**, reducing manual reconciliation time by ~90% and improving accuracy for the finance team.

Software Engineer Consultant (Part-Time) April 2026 – October 2026

- Replaced spreadsheet KOL/SEO ops with **internal tools**, built a **Meta pixel** events page, added **Paid Ads** Frequency, and overlaid GitHub releases on funnel charts so **marketing and operations could track performance in one place**.
- Tagged database queries by route so slow SQL could be traced to the page, API, or cron behind it, cutting **production debugging time**, and added **SES** to admin health checks so email issues surfaced **before users reported them**.
- Helped with the legacy **ERP migration** and assisted in testing e-commerce web application before they went to production.

Software Engineer Intern January 2026 – April 2026

- **Built PostHog analytics dashboards** tracking traffic sources for the company's multiple e-commerce site and migrated an **Order-Location dashboard** with choropleth Philippines map, improving visibility into **~1k+ monthly orders across regions**.
- **Implemented SQL queries for data cleaning, migration validation, and reporting**, supporting **data migrations** of **10k+ records** and enabling faster, data-driven decisions for multiple teams.
- **Built a workflow to link orders with payments**, partnering with cross-functional teams to eliminate unmatched transactions and streamline reconciliation.

PROJECTS

Skipn't — Local-first Productivity App (In progress)

- Building an Android-first app that joins tasks, notes, calendar, Pomodoro, search, and an AI assistant in one local-first workflow.
- Storing day-to-day tasks and notes on the phone with SQLite, and using Supabase for sign-in plus cloud backup so data and the AI assistant still work across devices.
- **Technology**: React Native, Expo, TypeScript, SQLite, Supabase

Ansu Automate — Windows Desktop and Browser Automation

- Built a Teach, Review, Run tool that records a workflow once into a YAML Program, then replays it the same way

every time in Chrome and Windows apps, so repetitive admin work gets taught once and run on demand.
- Wrote a .NET 8 C# FlaUI sidecar driven by the TypeScript runtime over NDJSON, handling launch, fill, click, and inspect so Windows UI automation stays stable and separate from the browser runner.
- **Technology**: C#, .NET 8, FlaUI, TypeScript, Node.js, Playwright, Electron, YAML

Phonetato — Dumbphone-style Android Home
- Built an Android Home launcher that keeps Phone, Messages, and other stock apps up front, and makes every extra app feel like a cost through a potato that weakens and rots with screen time.
- Implemented on-device freshness, drain, and heal logic in Kotlin so usage feedback stays local, with no Phonetato backend or accounts.
- **Technology**: Kotlin, Android, Jetpack Compose

Ansu — Merchant Messenger Customer Service
- Shipped a Messenger assistant that answers customers after hours with auto-replies, collects lead details, and hands the chat to a human when needed.
- Added onboarding from a website or Facebook Page URL into a drafted Business Profile, so merchants only fill gaps and reach the dashboard without a long signup form.
- **Technology**: Next.js, Node.js, Meta Messenger API, TypeScript

Beavo — Payment Processing Platform
- Designed a microservices payment flow with routing, failover ideas, and a state-machine lifecycle
- Implemented distributed system patterns including idempotent APIs, saga pattern for multi-step flows, outbox pattern and DLQ for reliable event publishing, and circuit breakers to improve service reliability and prevent duplicate charges.
- **Technology:** Spring Boot, Spring Cloud, gRPC, Kafka, PostgreSQL, Redis, HashiCorp Vault, Resilience4j, Docker

HR & Payroll System — Staff and Payroll Platform
- Designed a microservices HR/payroll model covering employee lifecycle, attendance, and payroll rules aligned with Philippine labor concepts.
- Engineered resilient, fault-tolerant payroll operations featuring automated approval workflows and comprehensive audit trails for transparency and reliability.
- **Technology**: Java, Spring Boot, Spring Cloud, gRPC, Kafka, PostgreSQL, Redis, Resilience4j, Docker

HACKATHONS

UXie — AI Usability Testing Agents (Champion, Codex x UX+AI)
- Built an AI usability tester in 3 hours: paste a site URL, pick up to 5 simulated users (mobile, keyboard-only, accessibility zoom, privacy-conscious, rushed), run goal-based browser agents, then get a score, top issues, and ready-to-paste fix prompts.

MedicAI - AI-Powered-Treatment-Plan-Assistant (1st Place, Build and Ship Philippines)
- Developed an AI-driven doctor's assistant web app that analyzes patient data and generates treatment plans, integrating FDA drug data and interaction checks to enhance clinical decision-making and safety.

Ainay — AI Health Companion (3rd Place, Build and Ship Philippines)
- Designed and presented an AI health companion for medication reminders, symptom check-ins, and caregiver coordination, with a clear patient/family journey focused on accessibility and reliable daily follow-ups.

TickTrack — Smart Manufacturing Dispatch (2nd Place, PMAX-EMAX Innovation Expo)
- Built and presented a manufacturing dispatch web app that centralized issue reporting, real-time ticket tracking, and supervisor visibility so floor teams and leads could assign ownership and escalate faster during live operations.