

AARON DAVE D. CALLANGA

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SUMMARY

Computer Science student and aspiring Full Stack Developer with hands-on experience in backend development using **Spring Boot** and modern frontend technologies like **React** and **TypeScript**. Passionate about building **enterprise-grade, microservices-based applications** that leverage cloud platforms (**AWS**) and AI tools (**LangChain4j**, **OpenRouter**). Committed to writing clean, maintainable code and continuously improving in system design, API development, and cloud integration. Driven to build innovative full stack solutions that deliver scalable architecture, seamless performance, and AI-powered automation.

EDUCATION

Polytechnic University of the Philippines, Sta. Mesa, Manila
Bachelor of Science in Computer Science (BSCS), Expected 2028

Technological Institute of the Philippines, Cubao, Quezon City,
Science, Technology, Engineering, and Mathematics (STEM), Graduated 2024

SKILLS

Backend & API Development: Spring, Spring Boot, LangChain4j, Swagger (OpenAPI), OpenRouter, Java, SQL

Frontend Development: React.js, JavaScript, TypeScript, HTML, CSS, Material UI

Testing & Quality Assurance: JUnit, Mockito

Tools: Git, GitHub, Postman, Linux, Netlify

Database Management: MySQL, PostgreSQL

Cloud & Infrastructure: AWS

PROJECTS

Library Management System

- Built a **Library Management System** backend using **Spring Boot** and **MySQL**, applying clean RESTful API architecture.
- Implemented JWT-based authentication, role-based authorization, data validation, and exception handling for secure and reliable access.
- Integrated **Swagger**, DTO mapping, pagination, sorting, and caching to boost performance and scalability.
- Ensured reliability with **JUnit** and **Mockito** tests, increasing code coverage and reducing bugs.

Transcript AI

- Developed Transcript AI backend with **Spring Boot**, **PostgreSQL**, **Lombok**, and **MapStruct** for clean, maintainable code.
- Integrated **LangChain4j** with **OpenRouter** (free LLMs) for AI-powered transcript summarization, analysis, and prompt-based interactions.
- Connected to external services via **RapidAPI** to fetch transcripts from video content.
- Documented APIs using **Swagger (OpenAPI)** and currently developing the frontend with **React** and **TypeScript** for an intuitive user interface.

Beyond The Wall

- Developed a Mathematics in the Modern World project titled **Beyond The Walls**, focusing on building a dynamic and responsive website as a portfolio.
- Designed the User Interface (UI) using React and ready-made Bootstrap components.
- Applied CSS with Bootstrap styling for a modern, clean design, and responsive across different screen sizes.
- Gained hands-on experience in creating modern, dynamic web UIs with **React**, **Bootstrap** and **CSS**, improving knowledge and expertise in Front-end Development.

Little Lemon – Capstone Project (Meta / Coursera)

- Developed the **Little Lemon Website** as a capstone project for the **Frontend Professional Certificate** course on Coursera by Meta. The project aimed to implement all the learning accumulated throughout the course building an e-commerce like website.
- Designed the UI for the website using React and CSS, making it responsive and user-friendly.
- Improved skills in **React** and **CSS**, and gained experience with developing e-commerce-like features.

TaskyMaster

- Developed **TaskyMaster**, a simple CRUD web application using **React with TypeScript** to reinforce core front-end development concepts.
- Designed the user interface using **Material UI**, ensuring a modern, consistent, and responsive design.
- Enhanced understanding of TypeScript, improving code quality and maintainability.