

Aron Resty B. Ramillano

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Full Stack Developer

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EDUCATION

University of the Philippines Los Baños

Bachelor of Science in Computer Science - GWA: 1.841 2020 - 2024

WORK EXPERIENCE

The App Factory

Software Engineer I - Remote June 2025 - Current

- Spearheading full-stack development of customer-facing mobile applications using React Native and Django REST.
- Managing and optimizing backend infrastructure, and service uptime for production mobile apps, with AWS deployments for reliable backend services.
- Collaborating cross-functionally to deliver scalable solutions, with a focus on performance, maintainability, and user experience across platforms.

Jachin-Boaz Corporation

I.T. Officer / Administrator, Software Developer - Hybrid 2019 - Current

- Optimized infrastructure by implementing Windows Server 2022 SMB file sharing, boosting collaboration.
- Developed & deployed company website domain, email services (cPanel), and an in-progress purchasing system to streamline procurement and inventory.
- Advanced from I.T. Consultant to full-time hybrid role, ensuring zero-downtime I.T. operations and supporting business growth.

INVENSITY MNL, Inc.

Junior Software Developer - Internship July 2023 - August 2023

- Developed an Employee Tracker Software for HR, enabling real-time office location tracking.
- Integrated Unifi API to extract and visualize employee data in a Flask, MongoDB, and SvelteKit dashboard.
- Collaborated with Senior Developers to refine development architecture and enhance Dockerized deployment.

PROJECTS

[LearnIT - Special Problems AI Web Application](#)

Technology Stack: Next.js, FastAPI, ChromaDB, LangChain, OpenAI, MongoDB, Python, JavaScript, TailwindCSS

- Developed an AI-powered learning companion using Text Segmentation and Contextual Condensing (TSCC), enabling intelligent document analysis and query-based retrieval.
- Designed and deployed a full-stack application with FastAPI (Python) for the backend and Next.js (React) for the frontend, hosted on DigitalOcean and Vercel for seamless accessibility.
- Implemented document processing features, including PDF tokenization, TSCC-based content extraction, and Retrieval-Augmented Generation (RAG) querying for enhanced learning experiences.
- Optimized system performance and deployment, securing API keys, managing MongoDB Atlas for data storage, and automating backend persistence with a DigitalOcean SSH script.

[BashBook Todo List App - Shared Task Management Mobile Application](#)

Technology Stack: Flutter, Firebase, Dart, Cloud Firestore, Firebase Authentication

- Developed a shared task management mobile application using Flutter and Firebase, ensuring seamless performance on both Android and iOS platforms.
- Designed and deployed a robust system with secure user authentication, profile management, and real-time collaborative task handling complete with detailed update logs.
- Implemented intuitive friend management features including efficient search, friend addition, and request workflows, to facilitate effortless collaboration.
- Crafted a sleek, terminal-inspired interface that is inspired with minimalism.

[Elemental Odyssey - A Java-based Platformer Game](#)

Technology Stack: Java

- Developed a custom game engine in Java, implementing physics, rendering, and map-making tools from scratch to support an elemental-based platforming game.
- Implemented multiplayer functionality using barebones Java socket programming over LAN, enabling real-time player interactions without external networking libraries.

[Random Terrain Generator - WebGL](#)

Technology Stack: JavaScript, WebGL

- Developed a WebGL-powered terrain generator in JavaScript, creating unique, procedurally generated landscapes with each execution.
- Implemented real-time 3D rendering and visualization techniques to efficiently display terrains in a web browser, enhancing interactive graphics capabilities.

SKILLS

Programming Languages: Python, Javascript, Typescript, HTML, C, SQL, Dart, Java
Technologies: MERN, NextJS, Google API, Wordpress, cPanel, VectorDBs, LangChain, OpenAI, StreamLit, React Native Expo, DRF
Soft Skills: Attention to Detail, Project & Time Management, Effective Communication, Proactive, Adaptive