Aron Resty B. Ramillano

Santa Rosa, Laguna, Philippines
(+63) 917-818-7094 / (+63) 927-087-5928
Email: aron.resty@gmail.com

Full Stack Developer

Github: github.com/PERSEUS-1337
LinkedIn: www.linkedin.com/in/aronrestyramillano

EDUCATION

University of the Philippines Los Baños
Bachelor of Science in Computer Science - GWA: 1.841   *2020 - 2024*

WORK EXPERIENCE

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.

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.

PHILMACH - Online Registration System
Technology Stack: Google Sheets API, Google Forms, Python
- Developed a Python-based registration system that integrates Google Forms and the Google Sheets API to automate participant data retrieval, email notifications, and QR code generation for event check-in.
- Implemented an on-site check-in system using QR scanners and thermal label printers, enabling seamless attendance verification and instant vCard QR code printing for networking.

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.

URSHRT - Custom T-shirt Generator Website
Technology Stack: Next.js, React.js, TailwindCSS, Shopify API, JavaScript, TypeScript, Vercel
- Developed an online store for ordering custom generated t-shirts for customers in the US.

Reaction-Time Based Web Application – Contracted Research Tool
Technology Stack: Express.js, Node.js, Google Sheets API, JavaScript, Heroku, Papertrail
- Developed a web-based reaction time testing application using Express.js, Node.js, and JavaScript, ensuring cross-device compatibility and real-time data collection.
- Integrated Google Sheets API for data storage and sharing, enabling seamless collaboration between developers and researchers while optimizing costs with Heroku's free plan.

SKILLS

Programming Languages: Python, Javascript, Typescript, HTML, C, Rust, SQL, Dart, Java
Technologies: MERN, NextJS, Tailwind, Google API, SvelteKit, Wordpress, cPanel, Flutter, ChromaDB, LangChain, OpenAI, StreamLit
Soft Skills: Attention to Detail, Project & Time Management, Effective Communication, Proactive, Adaptive