JULIUS CAESAR F. RAAGAS

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EDUCATION

Bachelor of Science in Computer Science , CVSU Bacoor Campus   Expected 2026

Technical Skills

- **Core Development:** JavaScript (ES6+), TypeScript, Vue.js, React.js, Next.js, Nuxt.js
- **AI & Machine Learning:** Model Training & Fine-tuning, Data Preprocessing, Neural Networks (Basic), LLM Integration, Advanced Prompt Engineering
- **Backend & Databases:** Node.js, Express.js, Laravel (PHP), Python (Pandas/NumPy), MySQL, MongoDB, Firebase
- **Cloud & Infrastructure:** AWS (S3, EC2), Vercel, Firebase Hosting, Docker, CI/CD Pipelines
- **Design & UI:** UI/UX Design (Figma), SCSS, RESTful API Architecture

EXPERIENCE

Pixel8 Web Solutions & Consultancy Inc.   Aug 2023 - Dec 2023

Software Engineer Intern   Legazpi City, Albay, Philippines

- **Frontend Development:** Developed and enhanced multiple UI features using the Quasar Framework (**Vue.js**), focusing on improving user interaction, responsiveness, and component reusability. Collaborated with the design team to translate wireframes into dynamic and maintainable frontend modules that followed modern UX principles.Built and integrated RESTful APIs (**PHP/XAMPP**) to handle dynamic content and data synchronization between client and server.
- **Backend & API Management:** Designed, implemented, and tested **RESTful APIs** using **PHP/XAMPP**, ensuring reliable communication between frontend interfaces and backend data services. Integrated database queries, validated endpoints, and documented routes for consistent team use.
- **Integration & Testing:** Conducted thorough integration testing to ensure seamless data flow and eliminate compatibility issues between frontend and backend systems. Utilized version control and debugging tools to identify and resolve performance bottlenecks.
- **Leadership & Mentorship:** Supervised a small team of OJT interns, guiding them in following best coding practices, debugging issues, and documenting their work. Provided peer reviews and led short discussions on improving workflow efficiency.
- **Documentation & Knowledge Transfer:** Created detailed documentation for UI components, API endpoints, and workflow processes to streamline onboarding and ensure long-term maintainability for future developers.

Macrologic Diversified Technologies Inc.   Aug 2024 - Dec 2024

Web Developer Intern   Bacoor, Calabarzon, Philippines

- **Website Management & Enhancement:** Managed, maintained, and enhanced the company's WordPress website, implementing structured UI improvements and optimizing modules based on user behavior and team feedback. Collaborated on layout redesigns to make the site more intuitive, accessible, and visually appealing.
- **Performance Optimization:** Integrated lazy loading, optimized media assets, and fine-tuned caching mechanisms, which significantly improved load times and overall site responsiveness. Conducted browser compatibility tests and implemented SEO-friendly practices to enhance visibility and speed metrics.
- **Cross-Team Collaboration:** Worked closely with marketing and design teams to align content updates with campaign timelines and branding consistency, ensuring that each update met both aesthetic and functional objectives.
- **Documentation for Future Development:** Authored comprehensive documentation covering plugin usage, theme configurations, and page structures to assist future developers and interns. This ensured a smooth handover and maintained consistency across future updates.

Freelancing   March 2023 - March 2025

Full-stack Developer   Imus, Calabarzon, Philippines

- **Full Stack Development:** Designed and developed end-to-end web applications for small to medium-scale school and research projects, implementing robust backend logic, secure APIs, and responsive frontends. Leveraged **PHP, JavaScript**, and **Express.js** frameworks to create dynamic and scalable solutions tailored to specific client needs.
- **IoT Project Development:** Built and integrated Internet of Things (**IoT**) systems for academic projects, combining hardware (**Arduino, ESP32, sensors**) with custom web dashboards for real-time data monitoring and automation. Ensured smooth communication between embedded devices and cloud platforms through **RESTful APIs** and **MQTT protocols**.
- UI/UX Design: Created intuitive, mobile-friendly interfaces emphasizing accessibility, clarity, and visual appeal. Used **Figma** and **Tailwind CSS** to prototype and implement consistent UI patterns aligned with modern design standards.
- **Client Collaboration & Communication:** Engaged directly with students, clients, and small institutions to gather requirements, present design mockups, and iterate on features based on feedback. Maintained transparency in project timelines, deliverables, and progress updates.
- **Documentation & Handover:** Authored detailed technical documentation covering setup, deployment steps, and maintenance procedures to ensure long-term project sustainability and easy handover to future developers or teams.

PROJECTS

What's Your Ulam? | Full-Stack Developer   2020

- **Project Scope:** Co-developed a community-driven social media platform for culinary enthusiasts, enabling users to discover, share, and interact with regional recipes.
- **Frontend Engineering:** Architected a high-performance, responsive user interface using **Vue.js** and the **Quasar Framework**, ensuring a seamless cross-platform experience (Web/Mobile) through custom component libraries.
- **System Architecture:** Developed the complete backend infrastructure using **Node.js** and **Express.js**, managing end-to-end data flow and secure **RESTful API** development.
- **Core Feature Engineering:** Built a comprehensive social ecosystem from scratch, including secure user authentication, interactive commenting, and a personalized "bookmarking" system.
- **Integration & Synchronization:** Spearheaded the integration of backend services with the frontend, ensuring real-time data synchronization for user profile management and media uploads.

Stillness E-commerce | AI-Native Full-Stack Developer   2024

- **Rapid Development Milestone:** Engineered and deployed a fully functional, minimalist e-commerce platform in a record 72-hour timeframe by combining years of developer experience with AI-augmented engineering.
- **AI-Driven Workflow:** Leveraged advanced Prompt Engineering to automate component scaffolding, architect complex Vuex/Pinia state management, and generate optimized SCSS/CSS layouts, effectively reducing development time by 80%.
- **Frontend Excellence:** Built with Vue.js, focusing on high-performance reactivity and a seamless mobile-first shopping experience; deployed via Vercel for optimized global delivery.
- **Core Functionality:** Developed a dynamic product catalog, an integrated shopping cart system, and a clean, conversion-focused UI/UX using modern design principles.
- **Strategic Execution:** Demonstrated the ability to bridge the gap between architectural logic and AI execution, ensuring production-ready code quality while maintaining an ultra-fast delivery pace.

Precision Boxing: AI-Powered 3D Pose Estimation App | Lead AI Developer   2025 - Present

- **Innovative Data Engineering:** Developing a custom methodology to extract and label high-dimensional floating-point coordinate data (X, Y, Z) from MediaPipe BlazePose to create a proprietary dataset for biomechanical boxing analysis.

- **Custom Model Fine-Tuning:** Architecting and training a specialized Neural Network designed to ingest skeletal keypoint sequences; fine-tuning the model to recognize subtle variations in boxing stance, guard, and punch mechanics across multiple camera angles.

- **Advanced Pose Estimation:** Enhancing standard pose estimation accuracy by mapping 33 skeletal keypoints to professional boxing benchmarks, enabling the system to provide real-time, high-precision form correction.

- **Low-Latency Inference:** Optimizing the model for mobile-edge computing using TensorFlow Lite, ensuring the AI can process complex coordinate math and provide instant voice feedback on an Android device.

- **Full-Stack Implementation:** Integrating the AI engine with a React Native frontend and Supabase backend to track user progress, analyze improvement trends, and store training session data.

CERTIFICATES

Pixel8 Web Solutions & Consultancy Inc.

- Frontend Development Certificate   Dec 2023
- Backend Development Certificate   Jan 2024
- Professional Development Certificate in Software Engineering

REFERENCE

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