

Jake Mesina

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EDUCATION

City College of Calamba - BS, Information Technology

2022 — Present

Relevant Coursework: Web Development, Front-End Development, Responsive Web Design Principles, Software Development

PROJECTS

AppliTrak: AI-Powered Job Portal | Full-stack Developer

May 2025 — Present

- Enterprise-grade job marketplace featuring **local LLM integration (Ollama + LLaMA 3.2)** for automated resume-to-job compatibility scoring, **eliminating manual screening time from 5-7 minutes to 30 seconds**. Architected multi-role system with RBAC, **60+ RESTful endpoints, 8 MongoDB schemas** with geospatial indexing, and intelligent document parsing (PDF/DOCX/TXT) with secure file handling.
- Advanced system design integrating **3 external job APIs** with data normalization, JWT authentication with role-based middleware, real-time analytics using aggregation pipelines, and privacy-first AI processing (zero cloud costs). **Technical Proficiency: 82% across full stack (Node.js 85%, MongoDB 88%, JWT Auth 92%, React 78%, AI Integration 75%, API Integration 86%).**

K-Wise: AI-Driven Kiosk System | Front-end Developer

Feb 2025 — Nov 2025

- Architected React-based self-service kiosk UI with real-time AI integration, enabling customers to visualize PC compatibility instantly through dynamic component filtering, live validation feedback, and SSE-powered queue updates—**achieving 3.80/4.0 user satisfaction and 32% conversion rate**
- Built responsive product comparison interface with intelligent state management (React Context), consuming **150+ API endpoints to render real-time compatibility scores** from hybrid **AI engine (3,200+ rules + DeepSeek R1)**—eliminating **85% of manual staff consultations**
- Implemented advanced UX patterns: drag-and-drop build configurator, tier-based visual indicators (Entry/Mid/High/Elite), real-time price calculations, and AI-driven recommendation panels—**reducing average build time from 15 minutes to 2 minutes**
- Optimized front-end performance with **LRU caching strategy, lazy loading for 1000+ product images**, and debounced API calls—**achieving <300ms UI response time and 99.5% uptime despite complex AI operations**. React, Node.js, PostgreSQL, Ollama DeepSeek R1, Express | [GitHub](#) | [Figma](#)

CERTIFICATIONS

[AWS APAC Solutions Architecture virtual experience program](#), Forage

Sep 2025

[Skyscanner's Front-End Software Engineering](#), Forage

Sep 2025

[Fundamentals of Statistics with Microsoft Excel](#), Data Analytics Philippines

May 2025

[Accenture UK Developer and Technology Virtual Experience Programme](#), Forage

Oct 2025

SKILLS

Languages: : HTML + HTML5, TypeScript, CSS3, JavaScript

Frameworks: : ReactJS, Node.js, Express.js, Vite

Developer Tools: : Visual Studio Code, Git, Github, Github Copilot