Josephine E Ligatsyah

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EDUCATION

University of California Irvine (UCI), Donald Bren School of ICS — **June 2025**
Bachelor's Degree in Computer Science, Specialization in Networked Systems

Irvine Valley College (IVC), Irvine, CA — **August 2023**
Associate's Degree in Computer Science

SKILLS

Skills: Python, C, C++, JavaScript, TypeScript, Java, SQL, React.js, Next.js, JSX, HTML, CSS, NetSuite, Git, GitHub, Vercel, Figma, Canva, Google Analytics, Google Search Console, Jira, Microsoft 365, AWS, API, E-commerce Platform Management, WooCommerce
Language: Indonesian (Native), English (Native), Mandarin (Intermediate), Spanish (Learning)

WORK EXPERIENCE

Partner Engineering and Science, Irvine, CA — **January 2025 - June 2025**
Software Engineering Intern
- Collaborating with a full-stack development team to build an internal PDF parsing web application, automating data extraction to reduce manual intervention and improve document processing speed by 65%, significantly enhancing operational efficiency.
- Engineered backend functionality to concurrently process over 20 real estate documents, converting them to JSON using APIs, Tesseract OCR, and ChromaDB Vector Database, with planned chatbot integration for streamlined data retrieval.
- Designing the front-end with Figma and React (JSX) through an iterative process, continuously refining the interface based on feedback from 3 cross-functional teams to enhance user experience and intuitiveness.
- Implementing Agile and TDD methodologies, utilizing Pytest for testing, GitHub for version control, and Jira for project tracking, while collaborating closely with the backend team and stakeholders through weekly sprint progress reports.

Rubber-Cal, Fountain Valley, CA — **October 2024 - April 2025**
Data Operations Analyst (Part-Time)
- Conducted performance analysis and web health checks for 630+ products across Amazon, Lowe's, Home Depot, and five company-owned websites, identifying optimization opportunities and strategies, driving an 11% increase in e-commerce sales.
- Developed data-driven campaign management models using Excel, NetSuite, Google Analytics, Google Search Console, and leveraging performance dashboards to optimize marketing strategies, resulting in a 17% increase in efficiency.
- Led the launch and management of TikTok Shop by developing a unified workflow by integrating CRM-ERP system, consolidating and presenting data using Microsoft 365, ensuring 90% inventory accuracy and on-time deliveries.
- Monitored inventory tracking for 8500+ SKUs using NetSuite while actively contributing to the new product development process to ensure accurate stock availability and optimize supply chain efficiency, reducing onboarding time by 30%.

Outlier, Irvine, CA — **January 2024 - October 2024**
AI Prompt Engineer (Freelance)
- Developed solutions by generating and optimizing code snippets based on requirement documentation, analyzing and refining AI-generated code to ensure correctness and improve response quality, contributing to consistent model reliability.
- Reviewed and debugged hundreds of AI-generated outputs through systematic filtering methods to identify, analyze, and report AI model inconsistencies, and assigning classification scores to enhance model accuracy and reduce error frequency.

Code Ninjas, Irvine, CA — **November 2023 - October 2024**
Coding and STEM Instructor (Code Sensei)
- Mentored over 200 students (ages 5 to 14) in coding fundamentals through engaging and age-appropriate lessons, created individualized progress reports to monitor learning outcomes and provide insightful feedback to fellow mentors and parents.
- Conducted interactive and complimentary course trials for prospective young learners, sparking heightened interest, contributing to a 14% growth in student enrollment through game based lesson plans and strategic collaboration.

PROJECTS & ACHIEVEMENTS

Portfolio Website (https://josephineligatsyah.com/)
Personal Project
- Designed and deployed a professional portfolio website using React.js, JSX, and CSS, integrating Figma for intuitive design planning to showcase projects and experiences through a visually appealing, user-centric, and fully responsive interface, with automated updates and scalability achieved through CI/CD deployment on Vercel.

GenGainz
Cloud AWS UCI Hackathon Finalist
- Designed and prototyped GenGainz, a cloud-based fitness app, leveraging AWS Lambda, Bedrock, Amplify, and Next.js to deliver personalized workout plans based on user demographics, securing a finalist position by presenting a robust, interactive web application with scalable architecture, intuitive UI/UX design, and AI-driven workout recommendations.

Pilly
2nd Place UCI Design-A-Thon
- Designed Pilly, an accessible smart pill dispenser, focused on inclusive healthcare by combining voice-activated control, barcode medication scanning, and a user-friendly mobile app to support medication management for vulnerable populations, including the elderly and those with sensory impairments, earning recognition for its empathy-centered, human-centric design.

Search Engine Development
Computer Science Project
- Built an inverted index and search engine using Python, integrating Boolean retrieval and TF-IDF ranking to efficiently process and retrieve textual data from 56,000+ web pages, improving search relevance and reducing query response times to under 300ms, while utilizing GitHub for version control and conducting testing to enhance accuracy, performance, and reliability.