

Josephine E Ligatsyah

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EDUCATION

University of California, Irvine, Donald Bren School of ICS, Irvine, CA
Bachelor of Science in Computer Science, Specialization in Networked Systems

June 2025

Irvine Valley College (IVC), Irvine, CA
Associate's Degree in Computer Science

August 2023

WORK EXPERIENCE

Partner Engineering and Science, Irvine, CA

January 2025 – Present

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 accelerate document processing by 65%, enhancing operational efficiency.
- Developing a system capable of processing 20+ real estate documents simultaneously, converting them into JSON using company APIs, Tesseract OCR, and ChromaDB Vector Database, with plans to integrate a chatbot for seamless information retrieval.
- Designing the front-end with Figma for UI/UX and implementing it in 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 by submitting weekly progress reports as part of sprint cycles.

Rubber-Cal, Fountain Valley, CA

October 2024 – Present

Data Operations Analyst (Part-Time)

- Conducting in-depth ads performance analysis for 630+ products across Amazon, Lowe's, Home Depot, and five company-owned websites, identifying optimization opportunities and refining ad strategies, to drive an 11% increase in e-commerce sales.
- Designed and implemented data models for campaign management, utilizing insights from Google Analytics Console, Google Search Console, and bi-weekly web health checks to optimize marketing strategies, leading to 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.
- Optimized the digital marketing efforts across multiple e-commerce platforms, collaborating with the content team to execute targeted ad campaigns, leveraging affiliate marketing and collaborating with 10+ influencers to boost brand visibility by 12%.
- 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 code snippets according to the requirement documentation while analyzing and optimizing AI-generated code for correctness and efficiency, refining responses to ensure optimal model reliability and performance.
- Employed debugging techniques and systematic filtering methods to identify, analyze, and report AI model inconsistencies, then assigning classification scores to the responses, driving continuous improvements and reducing error rates.

Code Ninjas, Irvine, CA

November 2023 – October 2024

Coding and STEM Instructor (Code Sensei)

- Mentored and supervised 200+ students (ages 5 to 14) in coding fundamentals, delivering engaging and age-appropriate lessons, then created individualized progress tracking to monitor learning outcomes and provide insights to fellow mentors and parents.
- Conducted interactive and complimentary course trials for prospective young learners, sparking heightened interest and contributing to a 14% growth in student enrollment through game based lesson plans and strategic collaboration.

PROJECTS

Portfolio Website (<https://josephineligatsyah.com/>)

February 2025

Personal Project

- Designed and developed an interactive personal portfolio website using Figma, React.js, JSX, and CSS to showcase projects and experiences, incorporating dynamic visual elements like rotating project carousel and terminal-style bio to enhance engagement.
- Deployed the portfolio through Vercel with a custom domain, configuring DNS records via Spaceship and optimizing the CI/CD pipeline for automatic deployment, version control and scalability, ultimately ensuring responsive and consistent performance.

Temp-Trends (Weather-Based Digital Assistant)

November 2024

Informatics Project

- Developed a weather-based web app using Figma, React, and JS that delivers personalized outfit recommendations based on user preferences and temperature changes, leveraging Weather API, 10+ weather conditions, and 7 outfit categories.

Search Engine Development

February 2024 – March 2024

Computer Science Project

- Built an inverted index and search engine, integrating Boolean retrieval and TF-IDF ranking to efficiently process and retrieve textual data from 56000+ web pages to improve search relevance, query handling, and efficiency for large-scale data processing.
- Collaborated in a team of 4, using Python for development, leveraging GitHub for version control and conducting iterative testing to enhance search accuracy, reduce query response times to under 300ms, and ensure system reliability.

SKILLS

Technologies: Python, C, C++, JavaScript, Typescript, Java, SQL, Microsoft 365, React, Figma, Canva, NetSuite, Google Analytics

Language: Indonesian (Native), English (Proficient), Mandarin (Conversational)