WILLIAM WIDJAJA

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EDUCATION

B.S. Computer Science | University of California, San Diego Aug 2023 – 2026 (Expected)
- GPA: 3.86 | Provost Honors
- Coursework: Advanced Data Structures, Basic Data Struct & OO Design, Design & Analysis of Algorithms, Working with Large Code Bases, Software Engineering, Web Client Languages

Break Through Tech AI | University of California, Los Angeles May 2024 - Aug 2024
- Machine Learning Foundations e-Certificate | eCornell University
- Coursework: Exploratory Data Analysis, Dataset Building, Model Training and Inference, Natural Language Processing

PROFESSIONAL EXPERIENCE

Open Source Full Stack Developer | CSE Society Nov 2024 – June 2025
https://github.com/CSES-Open-Source/Opportune/releases
- Designed and integrated 10+ backend models, routers, and controllers with **React**, **Node.js**, **Express**, and **MongoDB**.
- Authored 60+ backend commits contributing to application tracking, alumni networking, and search/filtering.
- Refactored and validated API endpoints across 5+ major PRs, improving maintainability and efficiency.

AI Engineer Intern | Saciva Sept 2024 – Dec 2024
https://github.com/saciva-team-2b/Saciva-University-Recommendation-System-2B
- Performed exploratory data analysis (EDA) and dimensionality reduction (PCA, t-SNE) to optimize model inputs.
- Engineered real-world data algorithms using Python, scikit-learn, and known AI techniques.

PROJECTS

Lead Full Stack Developer | MemorySpot Apr 2025 – June 2025
https://github.com/cse110-sp25-group24/cse110-sp25-group24/
- Led architecture, implementation, and testing of a client-side website using **HTML**, **CSS**, **JavaScript**, and **IndexedDB**.
- Built 5+ **CRUD** features with geolocation and mood-based filters using the Google Maps API.
- Configured CI/CD workflows with GitHub Actions to run **20+ automated unit/e2e tests and lint checks** on every PR.
- Adopted **Agile** development practices and maintained architectural decision records (ADRs) to guide design tradeoffs.

Static Portfolio Site Jun 2025 – Present
https://wwidjaja.com
- Achieved a **~0.5s LCP** and **0 Cumulative Layout Shift** value for all pages for a stable user experience.
- Observed best practices for web development like RAIL, avoiding overengineering by delivering pages within 200 KB.

LEADERSHIP EXPERIENCE

SWE Events Director | ACM Nov 2024 – Present
- Crafted and hosted engaging technical presentations to 50+ students, ensuring clarity throughout.
- Conceptualized engaging ways to get audiences to interact, increasing attendance metrics by roughly 30%.

AI Intern | Break Through Tech AI @ UCLA Mar 2024 – May 2025
- Selected from 3000+ applicants for the Break Through Tech AI Program at UCLA and Cornell Tech.
- Led a cross-functional team in an intensive 3-month sprint to design and develop a University Recommendation System.

SKILLS

Languages: HTML5, CSS3, JavaScript, Python, TypeScript, Rust, Java, C, C++, Haskell, ARM Assembly

Frameworks & Libraries: React, Node.js, Express, MongoDB, Pandas, NumPy, Matplotlib, scikit-learn, IndexedDB, GMaps API

Tools & Technologies: Git, GitHub, VS Code, Zsh, Jupyter Notebook, GitHub Actions, Vercel, Linux, Figma

Concepts & Practices: RESTful APIs, CI/CD, Agile development, Test-driven development (TDD), Frontend optimization (RAIL), Progressive enhancement, Data preprocessing & model evaluation