

Kevin Wong

Software Engineer

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[LinkedIn](#) | [Github](#) | [Portfolio](#)

Summary

Computer Science Major and Software Engineer passionate about scalable full-stack and AI-driven solutions. Currently interning at Up Cancer, rebuilding and modernizing a CRM (AWS, React, Express) to fund cancer patient support programs. Skilled in AI integration, translating UI/UX prototypes into functional code, and optimizing backend systems for efficiency. Focused on writing clean, mission-driven software and leveraging AI to enhance automation, data insights, and user experiences.

Education

California State Polytechnic University - Pomona

Aug. 2021 - May 2025

Computer Science, Bachelor of Science

GPA: 3.94

Technical Skills

Languages: Javascript, HTML, CSS, SQL, Java, Python

Frameworks: React, Vue, Express, Next, Flask

Developer Tools: Git, Postman, MongoDB, Amazon Web Services, Docker, Hugging Face, MySQL Workbench, WSL/Ubuntu, Maven/Gradle

Coursework: Software Engineering, Data Structures and Algorithms, Big Data Analytics and Cloud Computing, Computer Networks, Operating Systems, Computer Architecture, Object-Oriented Programming, Database Systems

Experience

Full Stack Software Engineer Intern

Jan. 2025 - Present

Up Cancer

Remote

- Analyzing and refactoring existing CRM codebase (GitHub) to identify bottlenecks, improve scalability, and prepare for migration to AWS (EC2, Lambda, DynamoDB).
- Designing architecture for AWS deployment, including serverless components and DynamoDB integration to improve API response times.
- Partnering with frontend designers to implement UI/UX designs (Figma) into functional components, ensuring seamless integration with backend.
- Documenting technical processes and codebase improvements to streamline knowledge transfer for future interns and team members.

Full Stack Software Developer

Aug. 2025 - Present

AI-in-Construction Technology Initiative

Pomona, CA

- Created an AI-powered, desktop construction chatbot using Vue, Electron, and Ollama for multi-model processing, optimizing workflows across Precon, Con, and Postcon phases.
- Engineered a backend RESTful API for low-latency AI interactions, enabling dynamic model switching based on project needs.
- Integrated gigabytes of real-world construction data from general contractors and firms to enhance AI model training, leveraging fine-tuning and image classification techniques for improved accuracy.
- Transitioning from open-source models to proprietary AI solutions tailored for construction, ensuring greater efficiency, adaptability, and predictive capabilities.
- Partnering with a multidisciplinary team to strategize and execute a scalable roadmap for transforming the chatbot into a market-ready application, leveraging guidance and sponsorship from Cal Poly Pomona Engineering Professors.

Ground Control Station Database Systems Engineer

Aug. 2024 - Present

Northrop Grumman Collaboration Project

Pomona, California

- Studying model-based systems engineering (MBSE) concepts such as requirements, measures of effectiveness, and key performance parameters, to achieve mission success.
- Collaborating with teammates to derive systems-level and vehicle-level requirements.
- Utilizing MBSE to address performance and design requirements as part of an existing Request for Proposal to ensure customer needs are met and satisfied.

- Facilitating communication between the Systems Engineering and GCS teams.

Predictive Analytics Developer

Clune Construction

Jun. 2024 - Aug. 2024

San Francisco, California

- Developed and implemented a model in Python to enable predictive financial insights and data-driven decision making within the company.
- Conducted thorough testing and debugging to ensure software quality and performance.
- Maintained strict confidentiality protocols, aligning with the company's compliance standards.
- Received commendation from Clune executive team for consistent model performance and contribution to financial analysis.

Information Technology Intern

Center Theatre Group

May 2024 – Aug. 2024

Los Angeles, California

- Designed and implemented a dynamic facilities map of IT resources using Visio and Excel, identifying different hardware and materials.
- Managed IT assets over the network using tools such as Visio, Microsoft, and ZenDesk.
- Created and configured virtual machines to support various IT projects, increasing workflow by 25% for remote employees.

Projects

PlanYourPlate | JavaScript, HTML, Tailwind, React, Express, MongoDB, OpenAI

Sep. 2024 - Present

- Built and deployed PlanYourPlate, an AI-powered meal planning app that delivers personalized meal plans tailored to user preferences, with seamless functionality across devices hosted on Render.
- Integrated OpenAI's GPT API with advanced prompt engineering techniques to optimize meal plan generation and enhance user experience with accurate and relevant outputs.
- Implemented features like dark/light theme toggling, detailed meal cost breakdowns, and robust error handling to improve usability and engagement.

E-Commerce Platform | JavaScript, HTML, Tailwind CSS, Next.js, MongoDB, Stripe

Sep. 2024 - Present

- Developed a full-stack e-commerce platform using Next.js, MongoDB, and Tailwind CSS to create a responsive and scalable online shopping experience.
- Implemented secure Stripe-based checkout for reliable payment processing and integrated MongoDB to manage dynamic product listings, user accounts, and inventory.
- Optimized performance with a modular code structure to support scalability and maintainability for future feature expansions.

Facial Expression Classifier | Python, Jupyter Lab, Anaconda, PyTorch, Matplotlib, NumPy

Jul. 2024

- Created a Convolutional Deep Neural Network machine learning model for facial expression classification.
- Attained 1st Place on Kaggle Leaderboard with an above-baseline accuracy score of 0.82244.
- Applied accuracy-enhancing techniques such as image pooling, dropout, normalization, gradient clipping, and transforms, improving accuracy score by 13.15%

Medical Chatbot | Python, Flask, JavaScript, HTML, CSS, Open AI and Spotify APIs

Apr. 2024

- Developed a full-stack web application to provide users with instant assistance for medical inquiries.
- Utilized Flask, OpenAI, and Spotify's API for the back-end and implemented HTML, JavaScript, and CSS for the front-end.
- Delivered immediate access to critical resources such as CPR guidelines, first aid information, and emergency hotlines, enhancing user accessibility to essential medical information.

Certifications

AWS Cloud Practitioner (Mar. 2025)

Academic Achievements

President's Honor List

2022-2024

College of Science's Dean's List

Fall 2021-2024 | Spring 2022-2024