

# Kevin Wong

Software Engineer

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## 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**

*Computer Science, Bachelor of Science*

Aug. 2021 - May 2025

GPA: 3.94

## Technical Skills

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

**Frameworks:** React, Express, Next, Flask

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

**Coursework:** Software Engineering, Data Structures and Algorithms, Big Data Analytics and Cloud Computing, Operating Systems, Computer Architecture, Object-Oriented Programming, Database Systems, Numerical Methods and Linear Algebra

## Experience

**Full Stack Software Engineer**

*Up Cancer*

Jan. 2025 - Present

*Remote*

- Analyzing and refactoring existing CRM codebase (GitHub) to identify bottlenecks, improve scalability, and prepare for migration to AWS (EC2, 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**

*Independent*

Sep. 2024 - Present

*Pomona, California*

- Built an AI-powered construction chatbot using Javascript, HTML, CSS, and Ollama for multi-model processing (DeepSeek R1, Qwen2.5), optimizing workflows across Precon, Con, and Postcon phases.
- Developed a modern UI with real-time letter-by-letter response animation and expandable thinking phase visualization for enhanced readability.
- Implemented Markdown rendering for structured explanations, ensuring clarity in construction insights.
- Designed a scalable backend API for low-latency AI interactions, enabling dynamic model switching based on project needs.
- Leveraged Vue & Electron to build a responsive, desktop-friendly interface tailored for construction professionals.
- Spearheading efforts to acquire real-world construction data from general contractors and construction firms to train custom AI models using Ollama fine-tuning techniques and advanced prompt engineering.
- Partnered 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**

*Northrop Grumman Collaboration Project*

Aug. 2024 - Present

*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

Jun. 2024 - Aug. 2024

*Clune Construction*

*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

May 2024 – Aug. 2024

*Center Theatre Group*

*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.

## Network Engineering Intern

May 2023 – Aug. 2023

*NIS Consulting*

*Concord, California*

- Gained insight into a Network Consultant and Network Engineer's daily operations, meetings, troubleshooting sessions, project updates, and the implementation of computer networks.
- Observed the steps of how to design, develop, adapt, and maintain a network infrastructure.
- Practiced networking with Cisco Packet Tracer: creating diagrams, configuring devices, troubleshooting, and performing network experiments.

## 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.

## Academic Achievements

### President's Honor List

2022-2024

### College of Science's Dean's List

Fall 2021-2024 | Spring 2022-2024