Kevin Wong

Software Engineer

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<u>LinkedIn</u> | <u>Github</u>

Summary

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

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: ReactJS, Express.js, Next.js, Django, Flask, JUnit
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   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, 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.

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.

STEM Discover Instructor   Aug. 2024 - Present
STEM Center USA   *Claremont, California*
- Developing interactive STEM lessons and adapting methods to diverse learning styles, creating a supportive classroom environment.
- Mentoring students and implementing classroom management strategies, fostering creativity, confidence, and a productive learning space.
- Teaching Robotics and coding to middle-school students, enhancing problem-solving skills and engagement with technology.

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.

AI Construction Chatbot | *JavaScript, HTML, CSS, React, Express.js, Postman*   Sep. 2024 - Present
- Developed an AI-powered chatbot using OpenAI GPT API to provide construction industry-specific solutions and improve user query resolution.
- Planned and applied a full-stack architecture with a React frontend and Express.js backend, optimizing API integration for real-time responsiveness.
- Collaborated with a multidisciplinary team to draft and execute a roadmap to scale the chatbot into a market-ready application, with guidance and sponsorship from Cal Poly Pomona Engineering Professors.

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.

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   **College of Science's Dean's List**
2022-2024   *Fall 2021-2024 | Spring 2022-2024*