Kevin Wong

Computer Science Major
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Summary

Dedicated and results-driven 4th year Computer Science major with a strong foundation in software engineering, specializing in full-stack development. Proven ability to collaborate effectively with cross-functional teams, execute complex projects, and adapt to rapidly changing environments. Adept at problem-solving, debugging, and utilizing critical thinking skills to deliver high-quality solutions. Eager to leverage my expertise in software development and continuously learn from senior engineers to drive innovation and create impactful technology.

Education

California State Polytechnic University, Pomona Aug. 2021 - 2025
Computer Science, Bachelor of Science *GPA: 3.93*

Technical Skills

Languages: Java, Javascript, TypeScript, HTML, CSS, Python, SQL
Frameworks: React, Express.js, Django, Flask, JUnit
Developer Tools: Github, Postman, Apidog, MongoDB Compass, Amazon Web Services, MySQL Workbench, WSL/Ubuntu, Maven/Gradle, Jupyter Notebooks, Anaconda, Visual Studio Code, Lucidchart
Relevant Coursework: Software Engineering, Operating Systems, Computer Architecture, Data Structures and Algorithms, Object-Oriented Programming, Database Systems, Numerical Methods and Linear Algebra

Experience

Ground Control Station (GCS) 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.

Data Analytics Research 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 Internship 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 Internship 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

Predictive Duolingo Dashboard | *Python, Streamlit, SQL, Matplotlib, Seaborn* Aug. 2024 - Present

- Developed a Streamlit dashboard to analyze mock Duolingo learner data, using Altair to create interactive visualizations (bar, pie, and line charts) for predictive insights into user engagement, drop-off rates, and metrics like lessons completed and user retention.
- Applied machine learning models (Logistic Regression, Random Forest, SVM, and K-Nearest Neighbors) to predict user drop-off, evaluated models with accuracy scores, ROC curves, and confusion matrices.
- Integrated SQL query functionality for user-customizable data exploration, enhancing the dashboard's analytical capabilities.

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.

Personal Website | *HTML, CSS, JavaScript, GitHub* Mar. 2024 - Present

- Designed and developed dynamic coding portfolio with interactive features and responsive design using JavaScript to create engaging user experiences.

Academic Achievements

President's Honor List

2022-2024

College of Science's Dean's List

Fall 2021-2023 | *Spring 2022-2024*