Danniel Kim

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EDUCATION

University of California, Riverside | Bachelor of Science, Computer Engineering   **(09/2021) - (06/2025)**
- GPA: 3.90, Magna Cum Laude, Chancellor's Honors List

Relevant Courses: C++ OOP & DSA, Software Construction & Design, Algorithm Engineering, Embedded Systems, Operating Systems, Computer Architecture & Design, Logic Design, Software Analysis Testing & Verification, Automata and Formal Languages

EXPERIENCE

AI Safety and Training Specialist | *Sepal AI*   *Remote* | **(04/2025) - Present**
- Engineered and tested structured prompt sets to evaluate LLMs' ability to follow complex, context-sensitive instruction formats, with iterative feedback for training and refinement.
- Performed systematic **QA** of AI refusal mechanisms and ethical filters in safety-critical scenarios, documenting anomalies and edge cases to enhance model robustness.
- Engaged in weekly standups to discuss challenges, testing goals, and share insights on model behavior and evaluation strategy.

Full Stack Developer | *ACM@UCR*   *Riverside, CA* | **(01/2024) - (03/2025)**
- Collaborated with a **cross-functional** team of 30+ to develop a hackathon template supporting 1,000+ users across multiple UCR Hackathons with **Next.js**, **TailwindCSS**, and **Firebase**.
- Refactored codebase from **JavaScript** to **TypeScript**, improving code readability and reducing debugging time by 30%.
- Implemented **ESLint** to enforce code standards and reduce bugs, improving maintainability and developer experience.
- Increased test coverage by 20% and reduced post-deployment bugs with **automated unit tests** and **E2E tests** with **Cypress**.

IT Specialist & Computer Technician | *Kaddy's Computer Repair and IT Service*   *La Habra, CA* | **(05/2020) - (07/2020)**
- Diagnosed and resolved 200+ cybersecurity threats, including malware, ransomware, and rootkits.
- Automated software maintenance with **Bash** scripts, cutting setup time by 50%.

PROJECTS

CargoFlow: Efficient Ship Cargo Management System | *Collaborative Project*   **(09/2024) - (12/2024)**
- Developed a web app using **Next.js**, **Typescript**, **TailwindCSS**, and hosted on **Vercel**, in an agile/**scrum** environment with **Trello**.
- Iteratively refined and implemented **A*** and **Greedy BFS** algorithms with multiple **heuristics** to optimize cargo workflows, reducing runtime by 30% and computational overhead by 25%.
- Integrated **IndexedDB** for real-time storage of manifests, instructions, and logs, ensuring data persistence and seamless recovery.

Mock Anti-Drone Missile Defense System | *Collaborative Project*   **(09/2024) - (12/2024)**
- Engineered a target tracking **Real-Time System** in a team of 5 using **agile/scrum**, integrating **Python**, **C++**, and **OpenCV**.
- Trained and optimized ML models with **Ultralytics YOLO** for precise real-time ball tracking using **OpenCV**.
- Designed a servo-powered gimbal system controlled by **Arduino**, integrating webcam-based positional data and applying kinematic principles to align the projectile subsystem with moving targets.

J&M Products Website | *Collaborative Project*   **(06/2024) - (09/2024)**
- Developed a client-specific website in a team of 10 using **agile/scrum** and **Jira** leveraging **Next.js**, **TailwindCSS**, and **Node.js**.
- Worked in **cross-functional** teams with **UI/UX** designers to translate **Figma** designs into dynamic modular components, enhancing code maintainability and reducing front-end development time by 25%.
- Implemented **SEO** best practices and optimized page load times, resulting in a 15% increase in client engagement and traffic.

Sentiment-Based Chatbot | *Personal Project*   **(09/2023) - (12/2023)**
- Designed a **C++** sentiment-based chatbot utilizing adaptive learning to extract numerical values representing message bias.
- Employed **MySQL** to establish a database containing keywords paired with bias values, along with associated response phrases.
- Streamlined builds with **CMake** and ensured system reliability through **Google Test**, reducing debugging time by 30%.

TECHNICAL SKILLS

Programming Languages: Python, C++, TypeScript, JavaScript, Bash
Web Development: Next.js, React.js, Node.js, TailwindCSS, HTML, CSS, Firebase, IndexedDB, Figma, ESLint
Testing & QA: Cypress, Pytest, Google Test, Unit Testing, Integration Testing, E2E Testing, Regression Testing, Prompt Evaluation
Developer Tools: Git, Github Actions, Docker, Jira, Trello, CMake, NoSQL, SQL, REST APIs, AWS