

# Kenny Thai

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## Education

### University of California, Riverside

Bachelor of Science in Computer Science; GPA: 3.93

Riverside, California

September 2021 – June 2025

**Relevant Coursework:** Data Structures & Algorithms, Frontend Development, Database Management Systems, Artificial Intelligence, Embedded Systems, Compiler Design, Software Construction, Computer Architecture

## Experience

### UCR Computer Science and Engineering Department

Software Development Intern

[github.com/ucrcsdept](https://github.com/ucrcsdept)

June 2023 – Present

- Implemented **Podman** containers across **85+** courses, enabling easy replication and efficient setup of student environments.
- Reduced Dockerfile layers by **30%** and decreased memory utilization by minimizing the number of unnecessary package installations.
- Configured a containerized environment for **PostgreSQL** and **Anaconda**, enabling database operations and **Python** development for upper-division courses.
- Implemented a dynamic question generation system for classes by leveraging **JSON** for metadata, **HTML** for structured question templates, and **Python** for data generation.
- Revamped the auto-grading system using Python, resulting in an average **12%** increase in students' partial credit, enhancing overall assessment accuracy and feedback loop.

### UCR Computer Science and Engineering Department

Grader

March 2024 – Present

- Graded and provided feedback on over **160+** student assignments and assessments per week, ensuring accuracy, fairness, and consistency in evaluation.
- Attended bi-weekly meetings with professors and colleagues to discuss assignment deadlines, grading criteria, and feedback and concerns raised by students.
- Communicated effectively with students via email, pseudo office hours, or online platforms to address questions, concerns, and academic inquiries promptly.

## Projects

### PlanIt | C++, Git, OOP, Unit Testing

<https://github.com/kennythai2003/PlanIt>

- Designed an advanced task scheduler in **C++**, featuring an interface for task creation, deletion, editing, searching, and sorting.
- Leveraged advanced **object-oriented design** principles, incorporating abstraction, encapsulation, and polymorphism, to architect a highly modular and scalable product.
- Implemented **CI/CD** processes with Git, automating builds, deployment pipelines, and testing stages for an efficient end-to-end development workflow.
- Utilized **GDB** and **Valgrind** for diagnosis of test failures allowing for seamless troubleshooting and optimized the build and compile process with **CMake**.
- Wrote and automated **80+** unit tests employing the **GoogleTest** framework to increase code coverage ensuring the robustness and reliability of the application.

### hackGPT | Python, Discord API, OpenAI API

[github.com/kennythai2003/hackGPT](https://github.com/kennythai2003/hackGPT)

- Developed a **Discord** chatbot leveraging **OpenAI API's GPT** model, enhancing user interactions with advanced natural language processing capabilities and facilitating dynamic and contextually aware conversations.
- Leveraged the **GPT-4 model**, guaranteeing accurate responses to user prompts and handling up to **8,192** tokens for comprehensive and detailed interactions.
- Elevated user engagement by integrating OpenAI's **DALL-E** models allowing on-demand generation of images.
- Designed an attractive user interface using Discord embeds, enhancing user experience with organized and visually appealing content presentation.

## Technical Skills

**Languages:** Python, C++, C, Lua, HTML, CSS, JavaScript

**Developer Tools:** Git, React, Node.js, MongoDB, Bootstrap, PostgreSQL, Docker, Django, Podman, GoogleTest, GDB, CMake, Valgrind, Pandas, PyTest