Gerwin Mateo

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EDUCATION

Stanford University – Bachelor of Science in **Computer Science**   **Graduation: June 2026**

Human Computer Interaction Specialization   *GPA: 3.42/4.0*

- Relevant Coursework: Artificial Intelligence Techniques, Data Structures and Algorithms, Computer Systems and Organization, Operating Systems, Machine Learning, Linear Algebra and Multivariable Calculus.
- Clubs: Stanford AI Club

EXPERIENCE

Software Engineer Intern | Pi Network   **Jan. 2024 – Mar. 2024**

- Constructed a full stack E-commerce app using **React, HTML/CSS, JavaScript** (frontend) and **Node.js** (backend).
- Utilized MySQL for structured data storage and efficient management of orders, cart items, and descriptions.
- Enabled the integration of the Pi currency for store discovery and transactions.

Computer Science Researcher | Stanford University - CS197   **Sept. 2023 – Dec. 2023**

- Spearheaded the development of an automated framework using **Python** resulting in a 40% increase in efficiency.
- By optimizing a question-creating language model through a looping chain of models, tailored questions are continually prompted.

SELECTED PROJECTS

Portfolio Website   **June 2024**

- Architected a server-side rendered website with continuous integration delivery to test and build the project and publish to a website upon releases using **React, HTML, CSS,** and **Javascript.**

Python Image Compression Project   **June 2024**

- Created image compression algorithms in **Python**, utilizing Huffman coding and frequency domain transforms for efficient data compression.
- Implemented techniques for achieving substantial space savings compared to JPEG compression standards, focusing on lossy compression methods without perceptible loss in quality.

Money Tracker App   **Feb. 2024**

- Developed a Money Tracker App using **MongoDB** for data, **Node.js** for backend, and **React** for frontend.
- Engineered real-time tracking functionalities, enabling users to monitor expenses, incomes, and budgets.

Python Script for Desktop Cleaning   **Jan. 2024**

- Generated a **Python** script to automatically organize cluttered desktop files into categorized folders using MacOS.
- Implemented robust file sorting algorithm to rename non-descriptive files and eliminate duplicates.

Discord Bot   **Mar. 2023**

- Used **Python** to retrieve and analyze scratch file data within Discord to generate responses.
- Engineered an automated retrieval of song and album requests by utilizing **Spotify API.**
- Implemented **OpenAI's API** to enable users to pose inquiries and receive information.

TECHNICAL SKILLS

Languages: C++, C, C, Python, Java, SQL, JavaScript, HTML/CSS, Unix, Bash, Assembly.
Additional Skills: Git, React, Node.js,

INTERESTS

Interests: Full-stack Website development, markets and trading, investing, research, game theory/poker, Valorant, puzzles.