

Josiah Chen

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EDUCATION

University of California - Los Angeles (UCLA)

B.S in Computer Science and Math

Expected Graduation: June 2028

Los Angeles, CA

- **Relevant Coursework:** Computing in C++, Multivariable Calculus, Linear Algebra
- **Awards:** \$10,000 National Merit Scholarship, \$8,000 John Muir Health Scholarship, American Invitational Math Exam (AIME) Qualifier, USA Computing Olympiad (USACO) Silver, USA Biology Olympiad (USABO) Honorable Mention

EXPERIENCE

Yale Center for Clinical Investigation

June 2023 – Aug 2023

Research Intern

New Haven, CT

- Led a team of 4 interns to design and implement a project focused on optimizing clinical trial recruitment strategies and redesigning recruiting emails.
- Proposed an **AI-powered chatbot** to streamline responses to common patient FAQs, improving communication efficiency and reducing staff workload.
- Attended seminars by health professionals in order to learn about healthcare guidelines and the hospital experience.
- Presented project to **75+** Yale Medical School doctors, nurses, and employees.
- Design is now used by clinical trial companies such as **Hartford Health Care**.

John Muir Health

Apr. 2022 – June 2025

Shift Supervisor and Volunteer

Walnut Creek, CA

- Managed a team of **15** volunteers serving over **500+** hospital staff and patients.
- Train and inform new volunteers about health protocols, wheelchairs, the hospital facility, and various tasks in order to help them receive their official badge.
- Discharge patients, organize medical charts, write therapy schedules, deliver lab samples, and assist various departments throughout the hospital.
- Volunteered **350+** hours, won the John Muir Volunteer Scholarship, and was awarded **\$8,000** in scholarship money to put towards college education.

PROJECTS

AI Image Generator | Python, TensorFlow, Numpy, ImageIO, Matplotlib, Google Colab

June 2024

- Designed and implemented a Deep Convolutional Generative Adversarial Network (DCGAN) in **Python** to generate realistic digit images.
- Utilized **TensorFlow** for model training, **NumPy** for efficient numerical operations, and **PIL/ImageIO** for image preprocessing and output handling.
- Developed and fine-tuned both the **generator** and **discriminator** networks, ensuring balanced adversarial training for high-quality image synthesis.
- Visualized training progress and outputs using **Matplotlib** to track **convergence** and model improvements.

Personal Website | Git, HTML, CSS, JavaScript, UI/UX, GitHub

July 2024

- Built a responsive personal website by using **HTML** to structure content, **CSS** to style layouts and visuals, **JavaScript** to add interactivity, all in order to showcase portfolio projects, technical skills, and experiences.
- Implemented interactive **UI** components and incorporated cross-browser and **mobile device compatibility** to enhance user engagement and accessibility.
- Integrated contact forms and implemented client-side validation to enhance UI and ensure data accuracy.
- Pushed website on **GitHub Pages**, achieving **99.9%** uptime and reducing page load times by **40%** through code optimization.

TECHNICAL SKILLS / COMPETENCIES

Programming/Frameworks: C++, Python, Java, HTML/CSS, JavaScript

Developer Tools: Git, GitHub, Visual Studio, VS Code, Google Colab, OpenAI Publications

Libraries: TensorFlow, ImageIO, Matplotlib, NumPy, pandas

Languages: English, Mandarin, Spanish