

# Josiah Chen

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## EDUCATION

### University of California - Los Angeles (UCLA)

Expected Graduation: June 2029

B.S in Computer Science and Math

Los Angeles, CA

- **Relevant Coursework:** Computing in C++, Data Structures and Algorithms, Multivariable Calculus, Linear Algebra

## 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 | 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
- Deployed website on GitHub Pages, achieving 99.9% uptime and reducing page load times by 40% through code optimization

## 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

## TECHNICAL SKILLS

**Languages/Frameworks:** C++, Python, Java, HTML/CSS, JavaScript, React

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

**Libraries:** TensorFlow, ImageIO, Matplotlib, NumPy, pandas

**Awards:** \$10,000 National Merit Scholarship, \$8,000 John Muir Health Scholarship