Josiah Chen

+1 (925)-719-8290 | josiahchen2@gmail.com | San Francisco, CA| US Citizen | linkedin.com/in/josiahchen | github.com/josiahchen2

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++, 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 | *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

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