

James Liu

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EDUCATION

University of California, Los Angeles

Los Angeles, California

B.S. in Math of Computation (UC GPA: 4.00/ 4.00)

Exp. Grad Jun 2027

- **Related Coursework:** Software Development, Python Programming Modules/Libraries, Object Oriented Programming, Data and Control Structures, Algorithms, Computer Systems and Assembly Language; Calculus I-III; Linear Algebra, Ordinary Differential Equations; Discrete Mathematics

WORK EXPERIENCE

Lasik Eye Center

Buena Park, California

Data Analyst Intern

July 2023 - Dec 2023

- **Engineered a Python-based ETL pipeline** (Pandas, pdfplumber, gspread) to process **100+ PDF files weekly**, automating data extraction and reducing manual entry errors by **95%**
- **Digitized and centralized 5,000+ patient medical records** into the center's database, cutting file retrieval time **to under 30 seconds**
- **Built Google Sheets dashboards (pivot tables, filters, formulas)** used by **staff members** to track prescriptions, appointments, and patient histories improving overall data accessibility and reducing search and retrieval time by **~40%**

PROJECTS

SwiftlyMail AI | Next.js, TailwindCSS, TypeScript, Supabase (PostgreSQL), Vercel and OpenAI | <https://swiftlymail.vercel.app/>

- Founded and engineered a full-stack SaaS platform that enables users to send **100+ cold emails in one click**, reducing outreach time by **80% compared to manual workflows with 50+ users**
- Developed an **AI-driven email generation system (OpenAI API)** that drafts personalized, professional email templates reducing manual drafting effort by **70% per campaign**
- Implemented backend with **Next.js, Supabase (PostgreSQL)**, supporting secure **user authentication** and **scalable email automation**
- Engineered **RESTful serverless APIs in Node.js/Next.js** for email generation and automation to handle bulk email dispatch (**100+ emails/session**), batching, retries, and logging

SalemWFS VSL Landing Page | React, Next.js, TailwindCSS, Vercel, Firebase, Zapier | <https://salemwfs.vercel.app/>

- Engineered a **high-performance, responsive Video Sales Letter (VSL) Landing Page** for a coaching offer, optimizing load times to **<4 seconds**, improving UX
- Implemented **Firebase Firestore database schema** to securely store and query lead data with role-based access, ensuring **99.9% uptime** and compliance with client data policies.
- Designed and implemented an **automated lead capture system** using Firebase + Zapier, handling integrated **form submissions, enabling targeted email campaigns, increasing conversion rates**

Chef Cow AI | React, JS, TailwindCSS, Netlify, Huggingface Interface | <https://chefcowai.netlify.app/>

- Engineered 100% client-side state management using React Hooks
- Leveraged LLM prompt-engineering with MistralAI with HuggingFace Interface to dynamically generate personalized recipes
- Deployed to production with Netlify pipeline, ensuring fast and reliable delivery

ACTIVITIES

SchoolHouse.world Online Tutoring

May 2023 - Aug 2023

Tutor for SAT Math, AP Calculus I and II | [Check my Tutoring Reviews](#)

- Tutored 40+ learners across the world through hosted bootcamps/sessions; Organized a tailored curriculum to enhance learners' knowledge and address individual challenges

Video-Editing/Thumbnail/Website Freelance

Dec 2023 - Current

Freelancer <https://zhidesign.framer.website>

- Gained over 8,000,000+ views to optimize client's social media brands
- Used Premiere Pro to edit videos, Photoshop for Thumbnail Design, After Effects for Motion Graphics
- Developed responsive websites for e-commerce brands using Figma, Framer, React, HTML/CSS/JS

SKILLS

Languages: Python, Java, C, HTML, CSS, Javascript, TypeScript

Frameworks & Libraries: Next.js, Node.js, React.js, PostgreSQL, TailwindCSS

Developer Tools: Git, Github, VS Code, Netlify, Vercel