

ZHIYUAN SONG

Capitola, CA, 95010

📞 909-551-8610

✉️ songzhiyuan98@gmail.com

👤 linkedin.com/in/zhiyuan

🌐 zhiyuansong.dev

EDUCATION

University of California, Santa Cruz

Bachelor of Science in Computer Science

Sep. 2022 – June 2026

GPA: 3.60/4.00

EXPERIENCE

Web Developer Intern

Laboratory of AI & Biomedical Science, Columbia University

Dec 2024 – March 2025

New York, NY (Remote)

- Contributed to the development of the **MEDICINE public knowledge portal**, supporting internal data collection, visualization, and information access for research.
- Built an interactive **SVG-based** body map with real-time animations and navigation across **15+ organs**.
- Developed a global visitor analytics map using **D3.js** and **TopoJSON** to visualize traffic from **250+** countries.
- Built download system by refactoring **200+** pages into a reusable component, achieving **98%** code reuse.
- Built a lightweight backend with **Netlify Functions + MongoDB** for downloads and visitor tracking.
- Credited as **co-author** in a **Nature Aging** submission, with **contributions** included in the platform description.
- Collaborated** via GitHub, Slack, and email; participated in remote meetings for feature planning and issue resolution.

Full-Stack Developer Intern & Technical Lead

3CCA Church

Jan 2025 – Present

Remote

- Led** the redesign of the 3CCA Church website to support its **transition to an online platform**.
- Spearheaded **system architecture** and tech stack decisions (**React.js, Node.js, MongoDB**) for scalability.
- Built the **admin system** and key modules (event/audio/article), enabling non-technical staff to manage site content.
- Designed a **flexible MongoDB schema** based on project needs to support diverse and scalable content types.
- Led team meetings**, assigned tasks, and managed GitHub-based **code reviews** and merges.

PROJECTS

AI Resume Analyzer | MERN + OpenAI API + PDF Parsing

Feb 2025 – Present

- Designed and built an **AI-powered platform** to tackle resume-job mismatch and inefficient application analysis.
- Extracted resume text via **pdf-parse**, combining **regex** and **GPT analysis** to reach **100%** identification accuracy.
- Integrated **OpenAI API** for match scoring, tailored resume feedback, and interview question generation.
- Built a **session-based engine** with **multi-threaded context control**, reducing redundancy and saving **70% tokens**.
- Enabled one-click **JD pasting** with **token-optimized preprocessing** for faster, cheaper analysis.
- Used **Google OAuth** and **MongoDB** for user login, history tracking, and resume/job reuse.

AnimeHub | Full-Stack · MERN (MongoDB, Express.js, React, Node.js)

June 2024 – Nov 2024

- Developed a **full-stack** anime forum website for anime enthusiasts, featuring ratings, rankings, and user discussions.
- Implemented a **decoupled architecture** with separate deployments on Netlify and **Heroku**, ensuring scalability.
- Built **RESTful APIs** with Express.js for ratings, filtering, and user management, enhancing backend efficiency.
- Optimized **MongoDB** by embedding ID arrays to simplify data access and reduce query overhead.
- Implemented **JWT authentication** with an Axios interceptor for token refresh and seamless API retries.
- Added multi-language support using **i18n**, storing language preferences in user accounts for persistent customization.
- Enhanced the user interface using Ant Design and **Material-UI**, improving usability and visual appeal.

Personal Portfolio Website | Frontend · Next.js + Typescript + Tailwind CSS

Oct 2024 – Jan 2025

- Developed a **Personal portfolio website** using Next.js and **TypeScript**, focusing on **Minimalist UI/UX**.
- Designed reusable components with **Tailwind CSS**, supporting system-synced light/dark mode via **next-themes**.
- Enhanced interactivity with **Framer Motion**, enabling seamless page transitions and animations.
- Released the site as **Open-source template on GitHub**, making it reusable and customizable for other developers.
- Deployed on **Vercel** with custom domain and integrated **CI/CD pipeline** for continuous delivery.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, C++, Java, C

Frameworks & Libraries: React.js, Next.js, Redux, Tailwind CSS, Node.js, Express.js

Databases, DevOps & Tools: MongoDB, Redis, SQL, Git, Docker, AWS, Linux, Nginx, GitHub Actions