

# Debora Choi

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## EDUCATION

**University of California, Santa Cruz**

*B.S. Computer Science — Major GPA: 3.5*

Santa Cruz, CA

*Sept 2021 - Sept 2024*

**Relevant Coursework:** Computer Systems, C Programming, Data Structures and Algorithms, Computer Architecture, Fullstack Development, Artificial Intelligence, Natural Language Processing

## TECHNICAL SKILLS

**Programming Languages/Technologies:** JavaScript, TypeScript, React, Node.js, Python, Java, C/C++, REST API, SQL, MongoDB, AWS, Firebase, HTML/CSS, JSON

**Software Tools/Operating Systems:** Git/GitHub, Docker, Unix/Linux, PostgreSQL, CI/CD (GitHub Actions), Puppeteer, Jest, Agile, Jira, Postman, Asana ([Workflow Specialist Certified](#)), Jupyter Notebooks

## EXPERIENCE

**Keywords Studios**

San Francisco, CA

*AI Project Engineer*

*March 2025 - Present*

- Led AI data training initiatives by collecting and analyzing diverse datasets to improve AI-human interactions, ensuring alignment with evolving technical and stakeholder requirements
- Performed QA testing, identifying performance gaps and refining datasets to optimize model accuracy and efficiency
- Managed and optimized project workflows using **Asana**, facilitating collaboration among cross-functional teams to streamline AI training, align with project goals, and accelerate deployment

**Mission Bit (*Award Winner*)** [Link](#)

San Francisco, CA

*Software Engineer Intern*

*June 2021 - July 2022*

- Implemented an interactive web application using **Python** and **Tkinter** that generates customized word games
- Developed both the front-end user interface and back-end logic, ensuring a smooth and responsive user experience
- Collaborated in an **Agile** environment, using **GitHub** for code reviews to ensure high code quality

## PROJECTS

**MangaReact** [Link](#)

San Francisco, CA

*Manga Database*

*Sept 2024*

- Built a dynamic web app using **React**, **JavaScript**, **HTML**, and **CSS**, optimizing performance to handle up to 462 requests/sec during load testing, ensuring smooth user interaction even during peak traffic
- Developed a scalable **REST API** to asynchronously fetch manga content, leveraging **JSON** for data exchange and **localStorage** for session persistence
- Deployed the application on **AWS EC2**, optimizing load balancing and auto-scaling to reduce downtime and latency

**SlackChat** [Link](#)

Santa Cruz, CA

*Slack Clone*

*Jul 2024*

- Designed a responsive messaging platform using **React**, **JavaScript**, **HTML**, **CSS**, and **Material UI**, and developed a custom **REST API** for real-time content retrieval and posting
- Deployed the application using **Docker** and integrated a **PostgreSQL**-powered backend, ensuring scalability and reliability under varying traffic loads
- Implemented end-to-end testing using **Puppeteer**, simulating user flows and integrated tests into the **CI/CD pipeline** to catch regressions early, increase coverage, and ensure consistent production-level quality

**Maomorize** [Link](#)

Santa Cruz, CA

*CruzHacks 2024*

*Jan 2024*

- Developed an interactive UI using **React**, **JavaScript**, **HTML**, and **CSS**, ensuring a consistent user experience
- Integrated **OpenAI's API** to provide personalized note suggestions, leveraging real-time analysis of user input to deliver accurate, context-aware feedback within 200ms
- Implemented secure user authentication using **Google Authentication** and **Firebase**, enabling real-time profile synchronization and ensuring data integrity through secure hashed credential storage