

# Eric Yang

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## EDUCATION

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### University of California, Berkeley

Berkeley, CA

*Bachelor's in Computer Science; GPA 3.49*

*August 2021 – May 2025*

**Relevant Coursework:** Data Structures, Machine Structures, Principles and Techniques of Data Science, Linux System Administration, Operating Systems, Computer Security, Machine Learning, Artificial Intelligence, Database Systems, Internet Architecture.

## EXPERIENCE

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### Fluxergy

June 2024 – August 2024

*Software Engineer Intern*

*Irvine, CA*

- Optimized Pytorch machine learning object detection models, cutting inference time by up to 30% with minimal accuracy loss, significantly enhancing the efficiency of the company's automated Complete Blood Count (CBC) tests.
- Developed data preprocessing pipelines that standardized medical imaging data from diverse formats, ensuring compatibility across deep learning models, reducing data cleaning time by 50%.
- Implemented profiling and benchmarking tools to monitor CPU/GPU usage, execution times, and function calls, delivering detailed insights that guided architectural changes and improved model performance.

### Hyperlink

January 2024 – May 2024

*Software Engineer Intern*

*San Francisco, CA*

- Engineered a responsive web application with Flask and React.js, seamlessly incorporating machine learning models for real-time image generation from text queries, implemented through a WebSocket framework.
- Developed Python scripts using Langchain and Pytorch to optimize chat-bot AI model parameters alongside context maintenance and message handling functions to facilitate smooth integration with database.
- Enhanced code generation components to autonomously retrieve and store chat history from relevant conversation threads within the database, optimizing context retrieval and persistence for communication with OpenAI API endpoints.

### Sysdig

May 2023 – August 2023

*Software Engineer Intern*

*San Francisco, CA*

- Extensively collaborated on a cross-functional team and implemented Sysdig Sage, a cutting-edge ChatGPT-powered assistant capable of generating, verifying, and explaining general and company-specific queries, streamlining user interaction with company platforms.
- Engineered a responsive multi-state chat interface with various conditional features through React.js, Typescript, and WebSocket technology to facilitate persistent real-time user-client communication.
- Implemented advanced chat history management features, allowing users to seamlessly interact with chat sessions through creation, deletion, and editing capabilities.

## PROJECTS

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### Secure File Transfer System | Go

April 2024

- Built a secure and persistent user-to-user file transfer system with invite, accept, revoke functionalities, integrity and authenticity guarantees, as well as user account handling..

### Personal Website | Typescript, React.js

August 2023

- Developed a personal website with viewport-dependent layouts, adjustable information tabs, click-to-scroll navigation bar, and email form submission capabilities.

### Gitlet | Java

May 2022

- Created a lightweight version control system, based on the popular version control system Git, using file persistence and serialization principles to maintain files and directories.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C, React.js, Typescript, Javascript, Go, Assembly, Rust, HTML, CSS, SQL, Bash

**Tools:** Git, NumPy, pandas, Matplotlib, Pytorch, OpenCV, SASS, Node.js, Express.js, Flask, Jira, AWS, Kubernetes