Jonathan Ye

Full-Stack & Software Developer

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Education

Stanford University, Stanford, CA | GPA: 3.95 B.S. in Computer Science

Key Coursework: Programming Abstractions, Probability for Computer Scientists, Computer Organization and Systems, Operating Systems Principles, Design and Analysis of Algorithms, Infrastructure at Scale

Experience

Amazon | Internship

Software Development Engineer | Java, AWS, MCP

Interning @ PXT (People eXperiences Technology)

Stanford Cybersecurity + AI Lab | Research

Researcher | Python, Typescript, React.js, Docker

- Enhanced Cybench and Bountybench's functionality-cybersecurity benchmarking tools for LLM models-by developing and integrating high-quality CTF challenge and bug bounty tasks into the CI using Python and Docker
- Interacted with server-side software through the configuration and testing of API requests and endpoints
- Improved user experience, speed by 300%, by implementing features on front-end and agent workflow on the back-end
- . Safely implemented changes by developing unit tests and collaborating with PR reviewers to ensure code quality/integrity

Grade Soar | Internship

Software Engineer | Javascript/Typescript, React.js, Next.js

- Designed and deployed a robust learning management system through effective team collaboration
- Delivered a responsive user interface by leveraging the MUI component library and Flexbox
- Enabled parameter customizability in components using Javascript .
- Streamlined team development by delivering progress updates in scrums and synchronizing contributions via Git .

Projects

Poke Pocket Market | Javascript/Typescript, React.js, Next.js, Firebase, Digital Ocean

- Built and deployed a trading platform for 100+ active users who play Pokemon TCG Pocket
- Designed Firestore database and algorithms that improve operation efficiency by 500% on user and card records
- Delivered a modern user interface and user experience with Tailwind CSS and ShadCN components
- Automatically update cards by data scraping 1000 cards/second with Python and storing data in Firebase Cloud Storage
- Allowed HTTPS connection using Nginx reverse proxy to redirect traffic within Digital Ocean server with 99.9% uptime -

Aspen | Discord.py, OpenAI API, LangGraph, Exa API, Python

- Built an AI-powered therapist that monitors Discord channels and reaches out to individuals in distress
- Directed the flow of conversation phases with LangGraph and OpenAI prompting
- Implemented web searching/crawling with Exa API to use intake information and design a therapy plan

Data Processor and Map Dashboard | Javascript/Typescript, React.js, Next.js API, Mapbox API

- Retrieves 200 normalized housing listings/second by processing and cleaning raw API data with Typescript
- Improved data fetching speed by 1000% with optimized API route interaction with PostgreSOL and Prisma
- . Displays and imports 1000 listings/second into a customized Mapbox API component

Skills

Front-End: React.js, Next.js, Javascript/Typescript, HTML/CSS Back-End: Firebase (NoSQL), Nginx, Digital Ocean, Docker

Dallas, TX June 2025 - Present

Dec 2024 – June 2025

Stanford, CA

Remote July 2024 - Sep 2024

June 2027