

ALEX CHEN

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OBJECTIVE

Motivated CS sophomore at Stanford University seeking a Software Engineering Internship for Summer 2027. Eager to apply foundations in algorithms, system programming, and full-stack development to solve engineering challenges.

EDUCATION

Stanford University

Expected June 2028

Stanford, CA

B.S. in Computer Science (GPA: 3.92 / 4.00)

- **Honors:** Dean's List (All Quarters), President's Scholar (Top 5% of class).
- **Relevant Coursework:** Data Structures & Algorithms, Systems Programming, Computer Organization, Database Systems.

EXPERIENCE

Undergrad Research Assistant

January 2026 – June 2026

Stanford, CA

Stanford AI Lab

- Developed Python scripts for preprocessing data used in training computer vision models, improving raw processing speed by 15%.
- Collaborated with a team of 3 PhD students to parse, clean, and structure massive datasets containing over 500,000 image samples.

Software Engineering Fellow

June 2025 – August 2025

Remote

Headstarter AI

- Built and deployed 5 responsive, full-stack AI web applications using React, Next.js, and Ethers.js API, serving 1,200+ users.
- Optimized backend latency by 25% by implementing Redis caching layers and refactoring MongoDB database queries.

PROJECTS

DevFlow — Q&A Platform | React, Node.js, Express, MongoDB, TailwindCSS

September 2025 – December 2025

- Developed a full-stack Q&A developer platform with fuzzy search, user authentication, and a voting system.
- Integrated a rich Markdown editor and custom syntax highlighting, increasing user interaction time by 40%.

September 2025

PathFinder — Algorithm Visualizer | JavaScript, HTML5, CSS3, Webpack

- Architected an interactive single-page application visualizing Dijkstra's, A*, and BFS/DFS pathfinding algorithms.
- Designed a responsive visual interface allowing users to adjust maze complexity, simulation speed, and place weight nodes.

SKILLS

Languages

Python, Java, C++, JavaScript (ES6+), TypeScript, SQL, HTML/CSS

Frameworks & Libs

React, Next.js, Node.js, Express, Flask, PyTorch

Tools & Platforms

Git, GitHub, Docker, AWS (S3, EC2), PostgreSQL, MongoDB, Linux, Webpack

Developer Concepts

Object-Oriented Programming (OOP), RESTful APIs, CI/CD, Agile Methodologies

ACTIVITIES & LEADERSHIP

Technical Lead

September 2025 – Present

Stanford, CA

Stanford Computer Society

- Organized weekly interactive workshops on full-stack web development and technical interview prep for 50+ members.

February 2026

Organizer & Mentor

Stanford, CA

HackStanford 2026

- Coordinated logistics, track sponsorships, and workspace setups for 400+ hackathon attendees.
- Mentored over 15 developer groups, advising on API integration, UI design, and database debugging.