

# Avery Chen

Computer Science Major

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## Education

B.S. Computer Science, State University (Expected May 2026)

GPA: 3.80, Dean's List

Relevant Coursework, Algorithms, Databases, Operating Systems, Machine Learning, Distributed Systems ()

## Experience

Software Engineering Intern — TechCo — Remote | Jun 2024 - Aug 2024

- Implemented RESTful API endpoints in Django and optimized DB queries, reducing median API latency by 25%.
- Added unit and integration tests increasing CI coverage from 52% to 78%; participated in code reviews for 20+ PRs.
- Containerized services with Docker and improved CI/CD deployment time by ~30%.

Undergraduate Research Assistant — AI Research Lab | Jan 2024 - May 2024

- Built NLP preprocessing pipelines and trained text classifiers in scikit-learn; improved F1 by 14 percentage points.
- Automated data ingestion for 10k+ documents and documented reproducible experiment steps.

Full-Stack Developer (Freelance) — Personal Projects | Sep 2023 - Present

- Designed and deployed 2 client websites (React + Firebase) handling auth and payments; maintained uptime and feature requests.
- Implemented analytics events to track user flows and optimize signup funnel.

CS Tutor — State University Tutoring Center | Sep 2022 - Present

- Tutored students in Data Structures and Intro to CS; prepared problem sets and exam reviews; improved average student scores.

## Projects

Real-time Stock Visualizer — React, WebSocket, D3.js

- Built SPA supporting live data streams; implemented efficient diffing so charts handle 500+ concurrent clients.

Portfolio Tracker — Python, Flask, SQLite, JWT

- Developed CRUD backend and scheduled ETL jobs; added daily email alerts and lightweight analytics endpoints.

Recommendation Engine (Course Capstone) — Python, scikit-learn, PostgreSQL

- Implemented collaborative filtering and evaluated with RMSE; integrated recommendations into web UI.

## Activities & Awards

Winner — State University Hackathon 2023 • CS Club — Project Lead • Volunteer — Girls Who Code Mentor

## Skills

Python, JavaScript, React, Django, SQL, Git, Docker, Linux, REST APIs, TDD, PostgreSQL, Redis