

SARAH JENNIFER CHEN

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EDUCATION

Stanford University Stanford, CA

Bachelor of Science in Computer Science Expected June 2025

GPA: 3.89/4.0

Relevant Coursework: Machine Learning, Artificial Intelligence, Data Structures, Algorithms, Web Development

WORK EXPERIENCE

Software Engineering Intern June 2024 - August 2024

Google | Mountain View, CA

- Developed and deployed a machine learning model that improved search recommendation accuracy by 23%
- Collaborated with a team of 6 engineers to redesign the user authentication system, reducing login time by 40%
- Implemented automated testing scripts that increased code coverage from 65% to 92%
- Presented findings to senior management and received excellent performance review

Teaching Assistant September 2023 - Present

Stanford Computer Science Department | Stanford, CA

- Lead weekly discussion sections for CS106B (Data Structures) with 30+ students
- Hold office hours to provide personalized support to struggling students
- Grade assignments and provide detailed feedback to help students improve
- Achieved 4.8/5.0 rating from student evaluations

Research Assistant January 2023 - May 2023

Stanford AI Lab | Stanford, CA

- Conducted research on natural language processing for healthcare applications
- Published paper in ACM conference on medical text classification
- Developed Python scripts for data preprocessing and analysis
- Collaborated with interdisciplinary team of doctors and computer scientists

LEADERSHIP & ACTIVITIES

President, Women in Computer Science Club September 2023 - Present

- Lead organization of 150+ members promoting diversity in tech
- Organized hackathon with 200+ participants and secured \$15,000 in sponsorships
- Established mentorship program connecting 50 students with industry professionals

Volunteer Tutor, Code for Kids June 2022 - Present

- Teach programming basics to underprivileged middle school students
- Developed curriculum for Python programming course
- Mentored 20+ students, with 85% completing final projects

SKILLS

Programming Languages: Python, Java, JavaScript, C++, SQL, R

Technologies: TensorFlow, React, Node.js, Docker, AWS, Git, MongoDB

Languages: English (Native), Spanish (Fluent), Mandarin (Conversational)

ACHIEVEMENTS & AWARDS

- Dean's List: Fall 2022, Spring 2023, Fall 2023
- First Place, Stanford Hackathon 2023 - Developed AI-powered mental health chatbot
- Google Women Techmakers Scholar 2024
- National Merit Scholar Finalist
- Published research paper: "NLP Applications in Medical Text Classification" - ACM Digital Library

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate
- Google Cloud Professional Data Engineer
- Stanford Machine Learning Certificate

PERSONAL PROJECTS

ScholarMatch AI September 2024 - Present

- Building an AI-powered platform to match students with scholarships using NLP
- Implemented recommendation algorithm achieving 87% match accuracy
- Deployed on AWS with React frontend and Python/FastAPI backend

EcoTracker Mobile App May 2024 - August 2024

- Developed iOS app to track personal carbon footprint with 500+ downloads
- Integrated machine learning for predictive analytics
- Featured in Stanford Daily as "App of the Month"

GOALS & INTERESTS

Career Goal: To leverage AI and machine learning to create innovative solutions that improve healthcare

accessibility and outcomes for underserved communities. Passionate about using technology for social good

and mentoring the next generation of diverse tech leaders.

Interests: Competitive programming, hiking, playing violin in Stanford Symphony Orchestra, volunteering

at local animal shelter