

SHANG-CHEN HSIEH

shangchenhsieh0702@gmail.com | linkedin.com/in/shang-chen-hsieh-598167222/ | github.com/ShangchenHsieh | shangchenh.com

Education

San Jose State University

Master of Science in Computer Science

San Jose, CA

August 2025 – Present

San Jose State University

Bachelor of Science in Computer Science

San Jose, CA

August 2022 – May 2025

Experience

Bercerita

November 2025 – January 2026

Backend Engineer

Fremont, CA

- Improved quiz-taking experience by implementing CloudFront caching, reducing image load times by over 90% (2–3 seconds to 150 ms) when accessing from Indonesia.
- Refactored API codebase to modularize endpoints, improve readability, and simplify future feature development.

San Jose State University

July 2025 – Present

Research Assistant

San Jose, CA

- Conducted Cascadia Subduction Zone research in dynamic rupture modeling using SeisSol, running large-scale simulations on high-performance computing clusters.

Bercerita

April 2025 – October 2025

Software Engineer

Fremont, CA

- Engineered and integrated core functionalities for KIRA, a gamified English-learning platform, enhancing engagement among Indonesian students.
- Orchestrated Agile workflows within a cross-functional team of 7 members, accelerated development process to deliver 90% product completion within 4 months.
- Designed and implemented a education material storage system with AWS S3, hash-values, and reference counting, leading into a storage cost reduction by approximately 80%.
- Developed a fully automated CI/CD pipeline by leveraging GitHub Actions, AWS ECR, AWS S3, and AWS Elastic Beanstalk, with integrated unit tests, reducing deployment overhead by around 30 man-hours per month.

Projects

Preview Your Professor

January 2025 – April 2025

- Built a full-stack web application integrating a third-party professor review site, optimizing the class search pipeline for San Jose State University students, reducing information retrieval time from 5 minutes to 15 seconds.
- Improved accessibility by developing model-based text-to-speech and AI-driven summarization services.

NexGen

December 2024 – January 2025

- Engineered a web-based application to automate cover letter generation using Flask framework, OpenAI API, and Puppeteer/PDFKit for seamless LLM-based content creation and PDF export
- Architected an AI-driven agent for dynamic PDF generation and instant download, reducing user time spent in job application workflows from an average of 3 minutes down to 20 seconds.

Certification

AWS Cloud Practitioner (Verification Code: a498774ff43e47b083ded31bf49d1bd0)

NVIDIA Getting Started with Deep Learning (Certificate ID: L877N1kHT-uJvAKJLVxfXw)

Technical Skills

Languages: Python, SQL, Java, JavaScript, TypeScript, C/C++, HTML/CSS, Bash Script, XML, JSON

Frameworks: FastAPI, Django, Flask, Springboot, Next JS, React JS

DB & DBMS: MySQL, MySQL Workbench, Postgres, pgAdmin4, Alembic

Tools: Git, Postman, Docker, AWS, Kubernetes, unix-based OS, Jira, Confluence