Simon Chang

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Education

California State University Northridge - *B.S Computer Science*   Fall 2022 - Spring 2025
Riverside City College - *A.S Math and Science, A.A Social and Behavioral Studies*   Fall 2019 - Spring 2022

Technical Skills

Certificate: AWS Cloud Technical Essentials

JavaScript, React Native, UI/UX Design, HTML5, CSS3, Python, Java, jQuery, MySQL, GitHub/GitHub Desktop, VS Code, JavaFX, Scene Builder, AWS, Agile/Scrum, Jira

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Front End

Portfolio - React, HTML, Tailwind, Vite   Fall 2025
- Created a portfolio from scratch using ideas from other resumes
- Dark and light mode with tailwind theming
- Using React to scale portfolio for mobile view

Passion Project Food App (In Progress) - React Native, Typescript   Summer 2025
- Learning how to full-stack an app development cycle as a solo passion project
- Learning how to use modal component along with stack for industry style transitions
- Planning to integrate AWS S3 for photo storage, along with google sign-in for users, open to other ideas

WPM Typing Test - Html, CSS, JS   Spring 2025
- Built a responsive web app to measure typing speed (WPM) with real-time timer and accuracy feedback
- Implemented randomized paragraph generation and dynamic border color changes for input validation

Interactive Virtual Pet Web App - HTML, CSS, JS, JQuery   Spring 2025
- Built a responsive SPA simulating a virtual pet with event-driven logic and real-time state management
- Used jQuery for DOM manipulation, keyboard input handling, and dynamic UI updates with conditional rendering
- Included edge case handling for stat limits (e.g., pet death, hiding elements) and dynamic background theming

Schedule Builder - HTML, CSS, JS, Python, Jira   Spring 2024
- Led front-end and data integration for a collaborative class app; scraped HTML with Python and tracked tasks in Jira
- Focused on form validation and UI clarity for end-user usability

Mock-Ecommerce - Java, JavaFX, Scene Builder, Microsoft Word, Powerpoint   Summer 2023
- Collaborated with colleagues to create a mock e-commerce Java application in a month.
- Learned to use Jira, Github, and Scrum to communicate with my colleagues/professor
- Using JavaFX to create a front-end design that was consistent with my peers

Machine Learning

Next Note Generation : LSTM - Python   Fall 2024
- Applied deep learning (LSTM) for sequence data modeling
- Tokenized datasets, tuned models, and evaluated generative accuracy using MIT open datasets

Database

Mock Hackathon Schema - SQL Server   Spring 2025
- Designed a normalized database schema with ER diagram and implemented it using SQL Server
- Wrote DDL/DML scripts with constraints and sample data for projects, judges, and evaluation criteria
- Built SQL queries to compute and rank top-scoring hackathon projects using weighted judge scores

Grocery Store Database - MYSQL   Fall 2024
- Designed and normalized a 5-table relational schema with foreign key constraints; advised peers on query logic
- Focused on readable naming conventions and query consistency across tables

Game Design

Unity 2D Bullet Hell - C#, Github Desktop, Microsoft Word, OBS   Spring 2024
- Designed UI and mechanics as project lead; managed asset integration and applied generative AI for custom sprites
- Built interactive menus and game loop systems with performance considerations