

Arshvir Sandhu

510-760-2349 • asandhu2487@sdsu.edu

Education

San Diego State University

Bachelor of Science in Computer Engineering (Class of 2028)

GPA: 3.59

Relevant coursework: Intro to Computer Programming

James Logan High School (Union City, CA)

High School Diploma

Honors: *summa cum laude*

Skills

Operating Systems: Windows, IOS, Android

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

Design Programs: Adobe Premiere Pro, Adobe After Effects, Adobe Photoshop

Proficient in: Adobe Premiere Pro, Google Suite

Coursework: AP Calc AB (5 on the AP test), AP Environmental Science (5 on the AP test)

Programming Projects

Image Manipulator (Python)

- Developed a Python command-line tool using the Pillow library to resize, convert, and manipulate images
- Added optional features such as image rotation, Gaussian blur, and grayscale conversion via command-line flags
- Implemented user input validation and error checking to improve tool functionality and user experience
- Designed the program with multiple functions to keep it modular, organized, and easily extensible for adding new features

AI Flashcard Generator (JavaScript & HTML + React)

- Developed an interactive React web app that can generate flashcards and quizzes, enhancing learning efficiency
- Integrated OpenAI's API with GPT-4o to automatically create flashcards based on user-provided text, improving content generation
- Implemented multiple features such as manual flashcard creation, quiz functionality, answer validation, and user-friendly navigation between different modes
- Ensured user convenience by handling edge cases and errors, including input validation and API response parsing
- Styled components of the app, such as buttons, animations, and overall look, using CSS to create an intuitive and responsive interface
- Managed sensitive API keys securely using environment variables, following good practice for credential safety

Portfolio Project (JavaScript & HTML + React & Vite)

- Developed an interactive multipage personal portfolio using React.js and Vite, showing personal information, contact info, and projects (with video showcase)
- Implemented React Router to navigate between multiple pages, such as Home, About, Projects, and Contact
- Designed and styled transitions and overall looks using CSS and the Framer Motion library
- Integrated external links to direct viewers to valuable contact platforms such as LinkedIn or Gmail