

Lawrence Cuenco

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EDUCATION:

San Jose State University, San Jose, CA

B.S., Computer Science

GPA 3.8

President's Scholar Award 2023 & 2024

Anticipated May 2026

RELEVANT COURSEWORK:

Data Structures and Algorithms

Object-Oriented Design

Programming Paradigms

Server-side Web Programming

Machine Learning

Database Management Systems

PROJECTS:

Simple Ciphers

Technologies: Docker, Vercel, Render, Node, Express, React, HTML, CSS, TypeScript, PostgreSQL

- Designed a full stack web React application to encrypt and decrypt messages in 9+ classical and modern cipher algorithms such as RC4 and AES.
- Deployed the user interface on Vercel and used Express to handle interaction between the client and the database, hosting it on Render for seamless full-stack deployment.
- Incorporated a PostgreSQL database to securely store user information, crypto-system statistics, and cipher keys, ensuring efficient data retrieval and future reuse.
- Utilized Docker for containerized deployment, ensuring consistency across development and production environments.

OverCheck - Game Data Website

Technologies: React, HTML, CSS, JavaScript

- Developed a web application that presents player statistics using the OverFast API, leveraging React for a responsive and interactive user interface.
- Implemented real-time data retrieval and visualization, enhancing user engagement with interactive UI components.
- Optimized API data retrieval processes, significantly reducing API calls and improving overall performance.

Weather Web Application

Technologies: NextJS, HTML, Tailwind CSS, TypeScript

- Created a weather web app that fetches and displays real-time weather data and 5-day forecasts for any city using a weather API.
- Optimized performance with server-side rendering in Next.js and enforced robust error handling for a seamless user experience.

Library Management Web System

Technologies: React, Spring Boot, Java, JavaScript, HTML, CSS, MySQL

- Developed a full-stack web application for managing book rentals, allowing administrators to track inventory and users to borrow and return books.
- Integrated a backend using Java Spring Boot and used an Aiven Cloud MySQL database for secure and efficient data management.

TECHNICAL SKILLS:

Programming Languages: Java, JavaScript, TypeScript, HTML, CSS, C#, Python, SQL

Frontend: React, Next.js, JavaFX, Unity

Backend: Express.js, Spring Boot, Node.js

Tools & Technologies: Docker, Vercel, Render, Git, GitHub, PostgreSQL, MySQL