Vincent Cheong

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EDUCATION

University of California — Santa Barbara, Santa Barbara, CA Sep. 2022 — Present
Major: Computer Engineering B.S.
GPA: 3.88 - Dean's List Engineering

PROJECTS

Scrypt Sep. 2023 — Dec. 2023
Programming Language

- Created a custom Python-like language that fully supports the logic and outputs of functions, conditional expressions, arrays, and loops using C++
- Conducted over 300 test units of extensive testing to ensure the quality and stability of the language implementation and logic
- Implemented specific error messages that reduced self-reported issues by 20%, giving users clear descriptions and reducing debugging times.

Decor Goods Sep. 2023 — Oct. 2023
Ecommerce Website

- Built a full stack, mobile-friendly website that allows the user to shop and purchase items.
- Utilized Next.js framework for front and back end, including a local database to track orders.
- Used Stripe API to track over 100 orders, creating a concise platform for performing quick and secure live transactions.

Rate my Resume Jan 2024
Resume Webapp

- Collaborated effectively with a team of 4 at SB Hacks X to develop a resume web app
- Implemented NLP to automatically censor personally identifiable information (PII) using Python.
- Incorporated MongoDB to efficiently store users' information with their redacted resumes and corresponding tags, resulting in a 30% decrease in total database query time.
- Used Next.js to fetch updating data from MongoDB and update the front end real time.

RELEVANT COURSEWORK

- Data Structures & Algorithms
- Digital Design Principles
- Deep Learning & Computer Vision
- Object Oriented Programming
- Analog and Digital Circuits & Systems
- Advanced Apps Programming
- Embedded Systems
- Computer Architecture

TECHNICAL SKILLS

- Languages: C/C++, Python, HTML, CSS, Javascript, TypeScript, Verilog, SQL
- Libraries: OpenGL, Numpy, Pandas, Pygame
- Deep Learning Frameworks: TensorFlow, PyTorch, Keras
- Web Frameworks: React, Next.js, Django
- Platforms: Google Cloud/Google Compute Engine, Cuda, Quartus

EXTRACURRICULARS

Data Science Club — Santa Barbara, CA Jan 2024 — Present

- Competed in the Data Science Club competition with the project "ActualAudio" that utilized text to audio technology from latent diffusion models to improve accuracy on imitating complicated descriptions by 13%.