

Kevin Truong

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EDUCATION

Bachelor of Science in Computer Science

August 2024

Colorado State University, Fort Collins, Colorado

Relevant Coursework: Computer Architecture | Data/Discrete Structures | Algorithms | Software Development and Engineering | Operating Systems | Networking | Machine Learning | Database Management | Systems Security

CERTIFICATIONS

CompTIA Security+ Certification

Issued December 2023

Relevant Skills: Cybersecurity Concepts | Threat Mitigation | Security Architecture

PROJECTS

Aesthetic Matcher | Astro, React, Flask, Pytorch

- Architected a web application frontend using Astro and React components that processes user-uploaded images to a Flask API, leveraging a fine-tuned machine learning model for real-time aesthetic classification across 1,000+ aesthetics.
- Built a custom dataset by scraping aesthetic images and information using Beautiful Soup to fine-tune OpenAI's CLIP model using PyTorch and Hugging Face Transformers for multi-label aesthetic classification.

Picture To Playlist Converter | React Native, Nodejs, Flask

- Developed a full-stack mobile/web application using React Native that transforms user photos into Spotify playlists, featuring dynamic audio previews and seamless Spotify track integration.
- Implemented a Node.js backend with a Flask server, utilizing a zero-shot image classification model to categorize images to over 2,000+ music genres along with Spotify's Web API to dynamically search for songs based on the classified genres.

Trip Planner | React, Java Spring, MariaDB

- Collaborated in a 5-person Agile team to develop a full-stack trip planning application, ensuring CI/CD practices with Docker, GitHub Actions, and Code Climate, and maintaining 90%+ test coverage through Jest and JUnit.
- Engineered responsive user interfaces with React.js and Leaflet maps while implementing RESTful API endpoints using a Java Spring framework and MariaDB for trip optimization and route planning.

Personal Portfolio | Astro, Nginx, Figma

- Designed and developed a portfolio website using Figma, Astro, and React components, featuring server-side API endpoints for contact forms and real-time Spotify profile data, with continuous deployment to Ubuntu/Nginx infrastructure via GitHub Actions.

Music Recommendation Generator | Python, Scikit-learn, Jupyter

- Developed a music recommendation system utilizing Spotify's Web API for gathering and preprocessing data along with machine learning techniques such as clustering algorithms.
- Conducted in-depth data analysis and standardization, applying machine learning techniques and several different clustering algorithms leading to results distinct from traditional methods.

ADDITIONAL

Technical Skills: Python | C | C++ | Java | Javascript | SQL | PHP | HTML | CSS | Bash

Technologies/Tools: Astro | React | Flask | Node.js | React Native | MySQL | Fuel PHP | Typescript | Docker | Nginx | Google Cloud | Ubuntu | Postman | GitHub | Code Climate