

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 | Operating Systems | Systems Security | Software Development and Engineering | Networking | Machine Learning | Database Management

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 that processes user-uploaded images to a Flask API, leveraging a fine-tuned machine learning model for aesthetic classification across 1,000+ aesthetics.
- Built a custom dataset by scraping aesthetic images and information using BeautifulSoup 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 to transform user photos into Spotify playlists, featuring dynamic audio previews and Spotify track integration.
- Implemented a Node.js backend with a Flask server, using a zero-shot image classification model to categorize images into over 2,000 music genres and Spotify's Web API to search for songs based on 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 while implementing RESTful API endpoints using a Java Spring framework and MariaDB for trip optimization and route planning.

Personal Portfolio / *Astro, Nginx*

- Designed and developed a portfolio website using 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 | Postman | GitHub | Code Climate | Zenhub