Daniel Truong

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EDUCATION

B.S. Computer Science **Graduation Date:** May 2024 **GPA: 4.0**
California State University,Fullerton

SKILLS

Languages: Python, TypeScript, JavaScript/HTML/CSS **Frontend / Mobile:** Next.js, React, Svelte, React Native

Backend: Express, FastAPI, Prisma, MongoDB, MySQL, DynamoDB **Other:** AWS S3, Lambda, QuickSight, Glue, CDK

WORK EXPERIENCE

AMAZON WEB SERVICES | SDE Intern | Seattle, WA May 2023 - Aug 2023

- Developed a monitoring dashboard for localization package build status, integrating it to an internal data analytics service in collaboration with the AWS Documentation team.
- Leveraged AWS CDK (Cloud Development Kit) and worked closely with my mentor to design and implement the architecture for the project.
- Led the data transformation process using PySpark, AWS Glue, and AWS S3 to process and prepare data for analysis and visualization.
- Deployed infrastructure components to AWS CloudFormation, ensuring reliable and scalable deployment of the system, and created a comprehensive dashboard with AWS QuickSight sourcing data from the internal datalake.
- Enabled the Documentation team to promptly detect failed builds, resulting in increased efficiency and productivity, made a significant impact on the entire Documentation team by streamlining processes and improving visibility into build status.
- Key contributor to a groundbreaking organization-level project, a new internal service tool. Pioneered the implementation of Kahn's Algorithm for a pivotal logic feature and collaborated seamlessly with frontend engineers to enhance the project's UI.

AMAZON | Student Fellows Feb 2023 – May 2023

- Selected as one of 10 students for the prestigious Amazon Student Fellowship program, collaborating with a team of 4 fellow students.
- Developed a transgender resource mobile web application from inception to completion, incorporating stakeholder interviews, research, and data collection.
- Achieved 2nd place among 14 teams in the Engineering competition by CSUF, showcasing strong teamwork, communication, and coding skills.

ASSOCIATION FOR COMPUTING MACHINERY CSUF | Vice President, PM Jun 2022 – Present

- Conducted educational sessions such as Intro to Web Dev, Intro to Github, Working with APIs for more than 50 beginner developers weekly as a subject matter expert (SME)
- Managed semester-long projects and provided techincal guidance to help members complete their projects including Svelte Portfolio Website, Canvas Notion Intergration for ECS Showcase 2022 event

CALIFORNIA STATE UNIVERSITY, FULLERTON | Data Science Research Assistant May 2022 – July 2022

- Researched about Data Science concepts such as data visualization, data analysis and Machine Learning concepts such as Linear Regression, K-Means Clustering,... under the guidance of Dr.Doina Bein
- Developed a Spotify Songs Recommendation System with K-Means and content-based filtering with optimal number of clusters through Elbow Method, Silhouette Number enhancing result outcome by 50%

TITAN RADIO | Web Developer | Fullerton, CA Jan 2022 – May 2022

- Maintained website for CSUF radio station serves 35000 students per semester with HTML, CSS, JavaScript, PHP, Wordpress
- Constructing a React Native mobile app for radio streaming and DJ's show schedule with Typescript
- Mentored web design intern through Notion applying Scrum best practices to design website graphics, enhancing efficiency by 60

PROJECTS

WORDCLOUD VOTE | An anonymous voting platform with word cloud visualization Feb 2023

- Developed a full-stack web application called WordCloud Vote, providing an anonymous and secure voting platform.

- Created the user interface using Next.js, TypeScript, and TailwindCSS, ensuring an intuitive and user-friendly voting experience.
- Designed the database structure and utilized Prisma and MongoDB for efficient backend development.
- Implemented word cloud visualization to facilitate easy analysis of voting results, enhancing data comprehension and insights.

GAMEBOY SIMULATOR | A desktop application to simulate gameboy image style   **Sep 2022**
- Implemented PyQT, openCV to create a Computer Vision desktop application for image and webcam processing
- Led a team of 3 developers to work on the application, created CI/CD workflow using Github Actions, managed issues using Github Issues which improve productivty and consistency in the production branch by 60%

SPOTIFY RECOMMENDATION SYSTEM | Machine Learning model suggests Spotify song playlist   **May 2022**
- Analyzed Spotify songs such as songs trend, song features correlation from 2017 to 2022 using Pandas, Matplotlib, Seaborn
- Implemented Spotipy to retrieve data from Spotify API and create desirable custom datasets including 300 hot songs from 2017-2022
- Implemented content-based filtering and One-Hot Encoding to determine user's top genre from personal playlist to create recommendation table with 50% more optimal cluster with Elbow Method, Silhouette Score

REDDAT | A full-stack social media web app   **Dec 2021**
- Launched a full-stack social media mobile web app similar to Reddit, reaching 2000+ users during beta launch
- Built API endpoints with authentication using JWT authentication, Express, Node.js, MongoDB applying MVC pattern
- Developed web app user interface with React, Redux Toolkit, and built chat room features with Socket.io increases user traffics by 60%