Thien An Tran

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EDUCATION

California Polytechnic State University San Luis Obispo   Graduation: June 2024
Bachelor of Science, **Software Engineering**

Relevant coursework: Data Structures, Design and Analysis of Algorithms, Intro to Databases, Systems Programming, Discrete Structures, Object Oriented Programming and Design, Software Engineering, Software Design and Development, UI/UX Design, Programming languages, Artificial Intelligence

EXPERIENCE

BEACoN Research Scholar   January 2024 - Present
- Applying a layer of security to images/videos by adding protective face blurring through machine learning

Machine Learning Research Assistant   October 2023 - Present
- Research patterns among professors in California to explore the possible link between ethnicity and professional collaboration
- Assembled a dataset for model training and testing by employing Selenium and BeautifulSoup for web scraping data on identified individuals
- Trained a Random Forest model to identify ethnicity based on name and face, resulting in a 91% accuracy

PROJECTS

UML Tutoring Program (Full-Stack)
- Two quarters long project: worked with three members to create an interactive tutoring program that teaches users programming, specifically UML to Code and vice versa in Java
- Applied *Agile* development process, using Scrum, Backlog, etc. (through Taiga.io)
- Helped design the back-end database for login information and queuing problems (*JDBC & MySQL*)
- Applied *Model-View-Controller*, *Singleton*, and *Observer* design patterns
- Used ChatGPT 3.5 Turbo API to generate UML diagram problems
- Includes a feedback system (for hints and assessment) that finds the difference between the user's solution and the correct solution through graph structures

Blog App Website (Full-Stack)
- Used MERN stack and JWT authentication
- Used CRUD operations, allowing users to create, read, update, and delete blog posts

Best Picture Oscars Predictor
- Looked into trends and patterns that makes a Best Picture winner
- Collected and cleaned data for model training with BeautifulSoup
- Trained a Logistic Regression and Random Forest model to predict the Best Picture award

SKILLS & KNOWLEDGE

Programming Languages: Python, Java, C++, MySQL, Assembly (MIPS, LC3), Racket, HTML/CSS, JavaScript, R
Technologies: ReactJS, NodeJs, Express, MongoDB, Flask, Pandas, NumPy, Scikit-Learn
Developer Tools/ Skills: Jira, Agile, Git, Figma, Excel, Unix
Hobbies: Reading, Volleyball, Video games, Flute, Cooking