Kent Vuong Tran

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EDUCATION

California State University, Fullerton **Aug 2022 – May 2026**

Bachelor of Science in Computer Science | Minor in Data Science

SKILLS

Languages: Python, C/C++, SQL, R, JavaScript
Web Development: React, Express, NodeJS, JavaScript, HTML, CSS
AI/DS: SKLearn, NumPy, Pandas, Matplotlib, SciPy, PyTorch, TensorFlow
Platforms & Tooling: Git, Linux

Experience

Machine Learning Research Intern for Smart Alert System Lab| California State University, Fullerton **Aug 2024 – Present**

- Led machine learning implementation to develop predictive models for emergency detection via multi-sensor system
- Collaborated with CSUF's Computer Engineer Team to optimize sensor data collection protocols and hardware design

SoCal Data Science Fellowship | University of California, Irvine **Jan 2024 – Aug 2024**

- Analyzed and differentiated between Alzheimer's and Mild Cognitive Impairment groups by collaborating with a principal investigator and using multiple models, resulting in advanced insights for the research lab
- Trained in data science concepts and communication skills such as data cleaning, statistical analysis, machine learning models, and data visualization, through a National Science Foundation-supported program, culminating in a poster presentation at a research symposium

AMD & NVDA: Pair Trading Research Under Dr. Bein | California State University, Fullerton **May 2023 – Aug 2023**

- Developed Python scripts to collect, clean, and analyze financial data from Yahoo Finance utilizing Jupyter Notebook
- Presented a comprehensive presentation on our algorithms and findings to identify the best ROI

Mokkoji: Server, Meat/Veggie Station, Line & Prep (1 Year) **May 2023 – Present**

- Demonstrated management skills by handling multiple tables while communicating with kitchen staff, bussing and cleaning tables, and addressing any concerns

PROJECTS

unREEL Engine (Video Editor Tool)

- Achieved 3rd place at Cerebral LA Hacks by developing a data pipeline to increase video editing efficiency by 50% through AI-driven scene indexing, organization, and voice generation
- Utilized Marengo, Pegasus, Twelve Labs, and MeloTTS models for clip tagging, natural language search, scene arrangement, and voice cloning/translation

Infant Mortality Prediction

- Achieved 90% accuracy in Predicting Infant Mortality using the PRAM's Dataset
- Implemented end-to-end data pipeline including cleaning, preprocessing, and feature engineering to optimize model performance
- Developed and compared Random Forrest, Naive Bayes, Logistic Regression, and XGBoost to achieve optimal prediction

Space Invader AI

- Achieved 150% increase in high score compared to random play by training Agentic AI to play space invaders utilizing the gymnasium environment of Space Invaders and Proximal Policy Optimization Reinforcement Model to learn how to play Space Invaders

LEADERSHIP

Association for Computing Machinery Member | Fullyhacks Operation Organizer **Aug 2022 – Present**

- Attended various events, participated and placed 1st out of 300+ in Fullyhacks as a first-time hacker, then worked to help organize Fullhacks events
- Attended Algo, AI, Game Dev, and Dev Workshops to expand CS knowledge