

# Trung Dao

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## EDUCATION

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**University of California, Irvine** | Bachelor of Science - Computer Science, Statistics Minor Expected June 2022

- **GPA:** 3.74/4.0
- **Dean's Honors List:** 7/7 quarters
- **Relevant Coursework:** Statistical Data Analysis, Probability and Statistical Theory, Linear Algebra, Differential Equations, Vector Calculus, Discrete Mathematics, Machine Learning and Data Mining, Data Structures and Algorithms, Systems Architecture, Database Management

## SKILLS

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**Languages:** Python, C++, Javascript, R, SQL, HTML, CSS, Assembly

**Frameworks & Tools:** Numpy, Pandas, Git, Linux, Jupyter Notebook, Tkinter

## EXPERIENCE

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**Machine Learning & Python Instructor - Pyxeda** July 2020 - Present

- Taught middle/high school students in Machine Learning, AI concepts, and implementation
- Guided students in AI development through algorithm visualization with the company's navigator program

**Python Instructor - Personal Course** July 2020 - September 2020

- Developed and marketed an introductory course for UCI students seeking to change their major to computer science
- Taught 30+ students Python, software engineering practices, and boolean logic in multiple 5 week sessions
- Provided weekly lectures, discussion sessions, office hours, coding assignments as well as academic advising
- Tracked students' improvement in technical and conceptual coding abilities through exams and projects

## PROJECTS

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**COVID Alerts** July - August 2020

- Created an automated messaging system that provides users with daily COVID-19 updates in their county or region
- Developed the backend, processing users' phone numbers and location and sending out messages using Twilio API
- Utilized Pandas and SQL database to process, store information and retrieve live data updates from a NYT repository

**Japanese Car Match** July 2020

- Developed a Facebook messenger chatbot that helped users find a new Japanese car to fit their needs
- Worked on the backend, processing users' inputs through a decision tree to narrow down possible choices

**Amyloid and Alzheimer's** June 2020

- Developed a machine learning model predict the likelihood of a patient developing Alzheimer's disease
- Made the model using Sklearn and Pandas to make a prediction based on precursors to the disease
- Used R to perform hypothesis testing and visualize data through plots and charts

**Mobile Simulton** February 2020

- Developed a game involving different simultons each with their own special abilities and movement patterns
- Players can control which simultons and where to place them on the screen at any time

**Mapquest API** November 2019

- Provided driving directions between user inputted location and destination using Mapquest's API
- Displayed local destinations that matched a keyword search on a GUI built using Tkinter

## ACTIVITIES & HOBBIES

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**Stock Trading and Analysis**

- Learned to read market trends and patterns
- Managed to turn \$4000 USD to over \$10000 USD in a span of 1.5 years

**Car Enthusiast**

- Enjoys building and modifying cars for show and race track performance
- Fascinated with the engineering that goes into cars of all makes and models, setting them all apart