

Zihe (Tyler) Deng

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EDUCATION

San Jose State University

M.S. Electrical Engineering (Machine Learning focus), Expecting graduation: May 2021

University of California, San Diego

B.S. Electrical Engineering (Machine Learning focus), Graduation: June 2019

DATA & MACHINE LEARNING EXPERIENCE

Data Analyst Nanodegree, Udacity online; Mar. 2019 – Aug. 2019

- Gathered, assessed, and cleaned multiple large scale datasets
- Conducted and analyzed the A/B test results in Python for many datasets
- Communicated insights and findings via visualization and generated analysis reports

Pattern Recognition and Machine Learning implementations, UC San Diego, CA; Jan. 2019 – Apr. 2019

- Implemented Bayes decision rule & Linear regression and accurately predicted the new dataset's classes.
- Implemented the Most likelihood estimation on MATLAB to further improve the accuracy by 50%.
- Used more techniques including: Clustering, Principal component analysis, and SVM on datasets.
- All algorithms were coded from scratch.

Instagram simplified Database Clone Project use MySQL, Udemy online; Dec. 2018 – Mar. 2019

- Learned comprehensive skills for SQL and used them to solve data-related problems.
- Used complex queries to extract useful and varieties of insights from a “mini Instagram” database. Insights include: “the most popular hashtags used”, “distinguish bots”, and “inactive users”.

Autonomous Vehicle Project Team Lead, University of California, San Diego, CA; Aug. 2018 – Sep. 2018

- Built a fully autonomous RC car from scratch and drove it on the track autonomously as scheduled.
- Accessed super computer with GPU cluster to train images using TensorFlow in Linux environment.
- Used Open CV with Python.
- Problem solving and teamwork in a time-restricted situation.

RELEVANT COURSEWORK

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| • Linear/Nonlinear optimization | • Robotics & Machine Intelligence |
| • Pattern Recognition & ML | • Java Data Structure and Algorithms |
| • Deep Neural Network | • Autonomous Vehicle |
| • Engineering Statistics and Probability | • Engineering Design for Sustainable Development |

SKILLS

- *Programming Language*: Java, Python, MATLAB, SQL
- *Concepts & Practical*: Data Structure and Algorithms, Machine Learning, Data Analysis process, Computer Vision
- *Languages*: Bilingual in English and Chinese