Daniel Yang

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EDUCATION

Stanford University — **Stanford, CA**

Computer Science BS (Track in Artificial Intelligence)

Westlake High School — **Austin, TX**

SAT: 1600/1600: **M:** 800 **R:** 800, **Valedictorian**

EXPERIENCE

Lasso Solutions — **San Francisco, CA**

Software Developer Intern — *June 2023 - August 2023*

- Coded 8k lines from scratch for new user platform on managing farm data to reduce emissions
- Programmed front-end UI/UX components using React, Babel, and WebSocket with wireframes built using Figma
- Assembled NodeJS server using Express framework and second server using Python with Flask framework
- Integrated with five third party platform APIs using OAuth 2.0 process in the NodeJS server, automating and speeding up data ingestion by 80%
- Engineered data parsing, cleansing and analysis algorithms causing 33% improvement in decision-making speed
- Configured AWS Lambdas with DynamoDB for fast data storage

Naval Sea Systems Command — **Remote**

Data Science Intern — *February 2023 - September 2023*

- Designed multiple data models to predict performance, degradation, and machine failure for York Marine AC Plants
- Analyzed over 3.5 million samples from sensors onboard current AC plants; performed data cleansing through scaling, normalization, and removing incomplete and erroneous condition readings
- Prepared training data set through feature selection, dimensional reduction, and encoding with 5-fold cross validation
- Engineered and trained seven different data models to determine which ensemble of data algorithms was the most accurate
- Final deployment of the data model reduced maintenance inspection times by 85%; published paper on project and research findings

PROJECTS & INITIATIVES

Department of Fish and Wildlife — **Palo Alto, CA**

Machine Learning Project Colead — *November 2022 - February 2023*

- Lead production of convolutional neural network to identify bird species in images for conservation efforts
- Optimized kernel and Relu dimensions and determined optimal convolution sequence to enhance model accuracy
- Spearheaded data augmentation by stretching, flipping, and filtering images which improved final accuracy rate by 20%

Association For Computing Machinery — **Stanford, CA**

Data Specialist — *September 2022 - November 2022*

- Crafted ensemble of GloVe word embeddings and BERT model for multilabel classification of human speech arguments
- Conducted text preprocessing to eliminate non-significant words, enhancing logistic regression model performance
- Participated in weekly PyTorch workshops and contributed to the final written report

AWARDS

Natural Language Processing report on BERT and GloVe findings selected for SemEval 2023 ACM conference
2021 Usapho (physics) Qualifier | 2021 Usnco (chemistry) Finalist | 2021 AIME
Ranked 4th best debater internationally by the National Speech & Debate Association

SKILLS

Programming: C++, Java, Python, Javascript, JSX React, CSS, HTML, R, C, MATLAB, SQL

Additional: AWS, HTTP, Excel, Algorithmic Design, DynamoDB, MongoDB, Linear, Pytorch, Machine Learning

Full-Stack: (Modern standardized APIs & best practices), Desktop and Mobile web dev, Single-threaded asynchronous and multithreading programming techniques, Websockets, Load balancing, Databases, Containerization

INTERESTS

Country guitar fingerpicking, camping and archery, and sea turtle conservation