

Kailing (Mark) Ding

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OBJECTIVE

(PERMANENT RESIDENT)

Kailing Ding is a junior data scientist with 3+ years of experience in entrepreneurial projects, internships, and Kaggle competition, who is highly passionate about the implementation and deployment of state-of-the-art machine learning and deep learning algorithms.

EDUCATION

University of California San Diego, La Jolla, CA

Major: Data Science

Minor: Entrepreneurship & Innovation

Dec 2021

- ♦ Relevant coursework: Machine Learning, Data Visualization, Deep Learning, Data Structures & Algorithms, Hypothesis & Permutation Testing, Database Query, Natural Language Processing

- ♦ VP of Technology at *Eta Omega Chi*

May 2019 - Present

SKILLS

Programming: Python, Java, JavaScript, Query, HTML, CSS, Bilingual (Chinese and English)

DS / ML: Supervised Learning, Time-series Forecasting, Optimization, Data Viz, Sklearn, Neural Network

Web Dev: Git, ReactJS, NodeJS, ExpressJS, SQL, MongoDB, AWS EC2/Route 53, Redux, Interactive chart

INTERNSHIP EXPERIENCES

GAC Group, Sunnyvale, California

Data Science Intern (Python)

Jun 2019 – Sep 2019

- ♦ Developed and optimized the **prediction model** for the health of **electric cars' battery** with an **accuracy score of 88%** by engineering features using *Sklearn*.
- ♦ Create **time-series data visualization** based on the vehicle's sensor data that helped the team determine **important features** for modeling.
- ♦ Consolidated the stability of regression model by writing production-quality unit tests for data preprocessing and model training within the pipeline using *unittest* module.
- ♦ Achieved high accuracy (f1_score of over 0.95) in **detecting anomalous driving behaviors** by building an **unsupervised learning** model based on the *Local Outlier Factor* algorithm.
- ♦ Presented complex technical information in a clear and concise manner to other non-technical colleagues.

ENTREPRENUERIAL EXPERIENCES

IntelliBear (ML & Soft Dev Project)

Jan 2020 – Present

- ♦ Lead a Scrum team to develop a **sales forecasting product** for **college markets** that reduces unproduced waste and improve efficiencies of markets' supply chain. (**Dashboard-like Web App**)
- ♦ Implemented **Long Short-term Memory (LSTM) algorithm** for predicting product sales using features such as historical sales data, day and week in the quarter, and large school events.
- ♦ Used **ReactJS** for frontend components, **ExpressJS** for web app server, **MongoDB** for databases.
- ♦ Utilized multiple charting libraries such as *Highcharts* and *D3* for charts in the dashboard.

2nd Place in UCSD DataHacks 2020

Feb 2020 – Feb 2020

- ♦ Acquired **2nd place** out of nearly 300 participants in UCSD annual data-centric hackathon.
- ♦ Implemented **multiple time-series forecasting algorithms** to predict UBER travel time in San Francisco.
- ♦ Conducted a business analysis report (with features recommendation) for UBER to enhance both **user experiences and customer loyalties**.

Masterofclass (www.masterofclass.com)

Sep 2019 – Jan 2020

- ♦ Built a website that allows college students to search their course group chat QR codes.
- ♦ Implemented **MERN** stack for this application and **deployed** this app on **AWS EC2**.
- ♦ Wrote several **blog posts** on social media for marketing and had **1000** total registered users.