

# 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

Proficient: *Python, Java, SQL, JavaScript, Pandas, Scikit-Learn, Matplotlib, Bilingual (Chinese and English)*

Intermediate: *AWS, ReactJS, Tableau, PyTorch, HTML, CSS, Nodejs, MongoDB*

Programming Tools: *Git, Pycharm, VSCode, IntelliJ, DataGrip, Postman*

## INTERNSHIP EXPERIENCES

### GAC Group, Sunnyvale, California

Data Science Intern (Python)

Jun 2019 – Sep 2019

- Improved the performance of the **regression model** for predicting the health of electric cars' battery with **an 8% increase** in metric by engineering and re-selecting features using *Sklearn*.
- Utilized *Matplotlib/Seaborn* to create **time-series data visualization** based on the vehicle's 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 (Full stack ML 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-liked 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.

### 2<sup>nd</sup> Place in UCSD DataHacks 2020

Feb 2020 – Feb 2020

- Acquired **2<sup>nd</sup> 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](http://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.