Jason C. Jiang

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EDUCATION

University of California San Diego **Jun 2025**
B.S. in Mathematics and Computer Science (Major GPA 3.8)

Springboard Data Science and Machine Learning Bootcamp **Feb 2025 - present**

SKILLS

Software: Python (NumPy, Matplotlib, Pandas, PyTorch, Django) | Excel | SQL | R & MATLAB | Java | C & C++ | Git | Bash/PowerShell scripting | JavaScript | LaTeX | Android | Unity
Computer Sci: Data Structures | Object-Oriented Design | Algorithms | Machine Learning | Data Mining | Computer Vision | Behavior-Driven Development | Agile Methodology | Mobile Software | Operating Systems | Multi-threaded Programming | Security | VR
Mathematics: Data Science | Fine-Grained Optimization | Linear Algebra | Probability & Statistics | Combinatorics | Abstract Algebra | Computational Theory
Hardware: Arduino | SystemVerilog | Computer Architecture | Digital Circuits | Embedded Systems |

WORK EXPERIENCE

NeuronFlo *ML & Web Development Intern* *Jun 2023 – Mar 2024*

- Trained camera systems via Convolutional Neural Networks machine learning algorithms to recognize objects.
- Wrote Python programs in Pandas framework to collect and organize output data from camera systems.
- Wrote Python programs to analyze the output data and developed a web interface in Django framework to present the data in a user-friendly way.

Rady's School of Management of UC San Diego *IT & Tech Support Intern* *Aug 2023 – Dec 2024*

- Created Pandas dataframes to organize audio and video recordings of class lectures. Added noting functions to detail file errors and solutions. Wrote Python functions to streamline audio and video error handling by comparing error notes and applying existing solutions among similar errors.
- Wrote Python scripts to detect network computer errors and troubleshoot errors, either remotely or onsite, including reloading operating systems and installing programs.
- Trained and led new interns to properly maintain school's networks and troubleshoot problems of computers, printers, video and audio equipment.

PROJECTS

Weather Forecaster Model *Lead programmer*
Designed and built multiple regression models in Python. Conducted exploratory data analysis on a weather dataset to look for feature correlations to construct linear regression, random forest, and gradient boosting models to predict future temperatures at various regions. Performed data wrangling on the dataset to optimize training and testing of each model. Over 10,000 testing dates, the best model predicted nearly 92% within 0.1 degrees (C°) accurately.

Hamming Distance Microcontroller *Hardware programmer*
Programmed a microcontroller in C to compute Hamming Distance (number of differences) between two binary strings. Built logic flow with SystemVerilog to pair binary strings, feed into calculator, and display results. The microcontroller achieved 100% accuracy with 320 pairs of strings.

Successorator App (an Android app) *Development operations*
Working in a 6-person group, developed a user interface of an Android-based reminder app in Java. Built a supporting database in Java and SQL. In charge of development operations by organizing project progress on Github using Agile methodology. Successfully delivered a fully functioning app.

Cat Tracker (a wearable device) *Algorithm designer and tester*
Built an embedded device and its tracking system to detect moving objects in a confined space. Used Arduino Programming Language to program ESP-32 microcontroller chips with an algorithm that calculates the Bluetooth signals' strength and determines the location of moving objects. Improved tracking accuracy by optimizing number and locations of sensors and changing computation formulas.