Jerry Sun

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Education

Cornell University, Ithaca, New York
B.S. Computer Science, GPA: 3.91/4.00, Deans List Aug 2019 - May 2023

- **Coursework**: Functional Programming (Consultant), Discrete Structures, OOP & Data Structures, Data Science for Engineers, Linear Algebra, Multivariable Calculus, Intro to Machine Learning (TA)

Skills

Languages

- Python, Java, OCaml, React, TypeScript, D3, HTML/CSS, SQL

Technologies

- Git, Jupyter Notebook, AWS, Android Studio, Keras, Beautiful Soup, Scikit-Learn, Networkx, Matplotlib

Experience

Cornell Data Science
Education Subteam Member Jan 2020 - Present

- Manage, update, and hold office hours for the class (INFO 1998 Intro to Machine Learning) taught by CDS
- Add data science tutorials to a repository (React and TypeScript, Python in Jupyter Notebooks for visuals)

Chandler Unified School District
Android Developer Apr 2019 - Jun 2019

- Built an informational Android App (Java) for the CUSD Breaking Barriers for Excellence Symposium, incorporating a splash screen feature and buttons to direct to google forms

Arizona State University Active Perception Group
Student Researcher Feb 2018 - May 2019

- Created a Convolutional Neural Network, CNN, to classify in-air handwritten alpha-numerics and gestures (Keras library in Python) , advised by Assistant Professor Yezhou Yang & PhD student Duo Lu
- Created a CNN to predict stellar characteristics from satellite imagery instead of standard spectrographs with the help of AWS services (SQL, BeautifulSoup and Keras libraries in Python)

Projects and Accolades

Wii Play - Tanks Game Apr-May 2020

- Built a game inspired directly from Wii Play - Tanks with game mechanics built from scratch (OCaml)

Oh-Online Mar-Apr 2020

- Created front-end for web application to automate zoom calls and streamline office hour queues using React

Runner-Up in the Cornell Mathematical Contest in Modeling Dec 2019

- Developed mathematical models to assign repair priority scores to blocks of sidewalks, identify optimal repair strategies, and predict future budget costs for the Ithaca Sidewalk Improvement Program

Modeling and Visualizing Canadian Elections Nov 2019

- Created a heatmap and bar chart to visualize the relative political leanings of Canadian provinces and their election results; K Nearest Neighbor and Perceptron models (Python) were used to predict election results

Grand Prize Winner of the Cornell Hospitality Hackathon Sep 2019

- Pitched a data-driven model to cluster guests based on preferences (i.e. sleeping habits) and used location data to optimize cleaning efficiency by housekeepers and reduce workplace musculoskeletal disorders