Andrea Bogle

Senior | UC Berkeley | EECS

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EXPERIENCES

The Aerospace Corporation — *Business Intelligence Intern*

MAY 2018- PRESENT

Use Keras, TensorFlow, Selenium and a number of other Python-based machine learning algorithms to develop tools to aid data scientists in the collection, analysis, and classification of big data.

Build a neural network from the bottom up and use Principal Component Analysis, Latent Dirichlet Analysis, and Linear Regression in order to make predictions.

Clovis Hills Community Church — *Music Director*

AUGUST 2015 - DECEMBER 2017

Develop conflict-resolution skills.
Learn to make split-second decisions in unexpected situations.
Give clear instructions to prevent misunderstandings and act as a point of communication between teams.

EDUCATION

University of California, Berkeley — *Bachelor of Science*

AUGUST 2018- MAY 2020

Cumulative GPA: 3.7

Field of Study: Electrical Engineering and Computer Science

Relevant Courses: Introduction to Computer Science, Data Structures, Computer Architecture, Discrete Mathematics, Designing Information Devices and Systems, Efficient Algorithms, Probability and Random Processes, Introduction to Artificial Intelligence

PROJECTS

Research — *Solar Panel*

Objective: Maximize current generated by a solar panel throughout the day by building a stand that will follow the sun while minimizing the cost of the project.

Machine Learning — *Neural Networks*

Objective: Use a Kaggle dataset alongside Principal Component Analysis, Latent Dirichlet Analysis, Linear Regression, and K-means Clustering to build a neural network to predict housing prices in the 1970s.

SKILLS

Programming Languages: C, C++, Python, Java, SQL, Html, CSS

Libraries: NumPy, Pandas, TensorFlow, Keras, Selenium, Os, Threading, SpaCy, NLP

Raspberry Pi, Arduino

LANGUAGES

English, French

PUBLICATIONS

Quantum Computing — *Internal Aerospace*

Objective: Analyze market and technological advancements in the field of quantum computing.

Forecast the trajectory of advancements.

Analyze the implications of these advancements on the field of security.

Neuromorphic Chips — *Internal Aerospace*

Objective: Explore different use cases of neuromorphic chips.

Analyzed the implications of a more advanced neuromorphic chip on the field of machine learning.