

KASPER BOULDIN

MACHINE LEARNING ENGINEER



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EDUCATION

Atlas School

2023-2024

Diploma of Computer Science and Machine Learning

Atlas School, located in Tulsa, Oklahoma, offers a peer and project-based software engineering program spanning 20 months. The curriculum covers the essentials of computer science, and after 8 months of CS Foundations, I moved on to the Machine Learning specialization which I'm currently studying. Here, I'm learning the fundamental concepts behind machine learning, ranging from supervised, unsupervised, to reinforcement learning techniques along with the mathematical frameworks behind them.

PROJECTS

Iceicle: A Winter Adventure

Atlas School

2023

www.github.com/colbertamir/hacksprint_project

- A simple fixed shooter style game with a winter theme inspired by the classic arcade game, Galaga, specifically the boss battle for Galaga '90. Made entirely with Python's Pygames module.
- Built by a team of two for our second trimester hacksprint in one week.
- I focused on the mechanics of the sprites and score/damage system

AirBnb Clone

Atlas School

2023

www.github.com/mokasp/holbertonschool-AirBnB_clone_v4

- A clone of the AirBNB website built in four parts with various languages in collaboration with multiple peers.
- Uses Python for the back-end along with SQLAlchemy to store, create, destroy, modify, and display objects in SQL and JSON files. HTML, CSS and jQuery AJAX were used to create a dynamic front end, Flask is used to connect the back-end to the front-end to allow for searching for properties.

Shell

Atlas School

2023

www.github.com/mokasp/holbertonschool-simple_shell

- A simple UNIX command line interpreter written in C made during my first trimester at Atlas school

Classification

Atlas School

2024

www.github.com/mokasp/atlas-machine_learning/tree/main/supervised_learning/classification

- Repository made during my third trimester that demonstrates my understanding of the essential inner workings of a classification based neural network.
- A single neuron, a network with one hidden layer, and a network with any given number of hidden layers are all represented in this repository

SKILLS

Machine Learning Algorithms

Data Structures

Neural Networks

Front & Back End Web Dev

Data Visualization

Linux

Data Preprocessing

LANGUAGES & TOOLS

Languages: Python, SQL, Bash, HTML, CSS, Javascript, C

Tools: Docker, Jupyter Notebooks, Colab, jQuery AJAX

Python Libraries: NumPy, OpenCV, Tensorflow, Scikit-Learn, Pandas, Matplotlib, Keras, SQLAlchemy, Flask

WORK EXPERIENCE

Housekeeper

The Dive Motel - Nashville, Tennessee

2022

- Cleaned every room after guests checked out, folded laundry, refreshed guests rooms every day, verified every room met cleanliness standards before guests checked in
- Ensured that all closing duties were performed and housekeeping work spaces were stocked and organized
- Communicated with motel managers on housekeeping needs as (we operated without a housekeeping manager). Worked with fellow housekeepers to keep the department running smoothly.

Food Prep - Cashier

Greenery Co. - Nashville, Tennessee

2021

- Created salads for customers and serving them, cashier duties at check-out, and maintaining an extremely clean environment in the restaurant.
- Assisted back-of-house in preparing a variety of ingredients and dressings while also attending to front-of-house as needed.

Warehouse Associate - Problem Solver

Amazon - Seatac, Washington

2020 - 2021

- Promoted to a problem solver after starting as a warehouse associate.
- Fixed damaged packages, used various software to return orders, and cleaned hazardous spills as a Problem Solver
- Lifted and sorted packages up to 50 lbs, operated various machinery, and loaded/unloaded pallets onto trucks.