

AARON MANUEL

MACHINE LEARNING ENGINEER

CONTACT

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SKILLS

- Python
- C
- Bash
- MySQL
- SQLAlchemy
- Numpy
- Tensorflow
- Jupyter
- CV2
- Pandas
- Matplotlib
- Scikit-Learn
- Scipy
- CSS
- PLCs
- XML
- Project Management
- Data Processing

EDUCATION

Diploma in Computer Science and Machine Learning

Holberton Tulsa

2022-2023

A 20 month, full-time curriculum focused on a peer learning environment with a wide range of coding foundations and Machine Learning projects.

B.S. Mathematics

University of Science and Arts of Oklahoma

2010-2013

Focus in Applied Mathematics.

- Minor, Physics
- Minor, Liberal Arts

PROFILE

Software Developer with 10+ years experience in a tech/research environment across the chemical, payroll, and education fields. I have proven ability to bridge the gaps between technology, business, and mathematical principles. Having strong foundations from my BS in Math and diploma in Machine Learning, I have a diverse blend of analytical skills and technical expertise to apply to the growing field of AI.

PROJECTS

Object Detection

- Implementation of YOLO for detecting objects in given photographs
- Included Display boxes, detection confidences, and class over the objects in the photographs
- https://github.com/AaronManuel15/holbertonschool-machine_learning/tree/main/supervised_learning/0x00-object_detection

Technologies: Python, Tensorflow, Keras, CV2

Space-Bubbles

- 2-D computer game mash up of Space Invaders and Bubble Shooter
- Included sounds, custom art, local leaderboard, and level progression
- Created for a Hack Sprint project at Holberton Tulsa with a four day coding window
- <https://github.com/wilstermanz/space-bubbles>

Technologies: Python, Pygame, SQLite

WORK EXPERIENCE

Student Tutor

Holberton Tulsa

2022-2023

- Conducted 2 live coding sessions per semester over various software development tools, languages, and concepts to an 80+ student audience
- Provided 10 hours of in-person support per week covering coursework in BASH / C / Python / MySQL / JavaScript / etc

Automation and Controls Engineer

Umicore Autocat USA Inc

2015-2022

- Designed and built reactor test equipment for the study of Automotive Catalysis
- Performed custom test procedures in a Class I Div II room and maintained ISO 9001 compliance
- Recorded and provided analysis on research data created by this testing equipment
- Headed capital projects from conceptual design through startup, including cost estimation and purchasing
- Tuned industrial controls systems to tolerances required by internal and external clients.