

Aaron Manuel

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• www.codemanuel.com

Data Scientist | AI/ML Engineer

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.

WORK EXPERIENCE

Holberton School Tulsa • Tulsa, Oklahoma, USA • 08/2022 - Present

Student Tutor

- 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

Umicore Autocat Usa Inc • Catoosa, Oklahoma, USA • Full-time • 06/2015 - 12/2021

Junior Automation And Controls Engineer

- Designed and built reactor test equipment for the study of Automotive Catalysis
- Recorded and provided analysis on research data created by custom test scripts performed on lab 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.

Paycom Payroll LLC • Oklahoma City, OK • Full-time • 04/2014 - 06/2015

New Client Setup Specialist II

- Managed the onboarding of new clients into payroll system.
- Imported YTD data and verified accuracy for all client employees
- Worked with internal development to find best solutions for each client
- Trained clients on software and aided in processing payroll

EDUCATION

Diploma In Computer Science and Machine Learning

Holberton School Tulsa • Tulsa OK • 05/2022 - 12/2023

B.S. Mathematics

University Of Science And Arts of Oklahoma • Chickasha, OK • GPA: 3.45 • 01/2010 – 12/2013

Minor: Physics

Minor: Liberal Arts

CERTIFICATIONS

Six Sigma White Belt

Six Sigma • 10/2023 – 10/2023

AWARDS & SCHOLARSHIPS

Student of the Month

Holberton School Tulsa • 10/2023

PROJECTS

Tulsa Musician Directory

09/2023 – Present

A web application that provides a centralized platform for showcasing local musicians with audio content, music links, and social media handles.

Initially built by peers at Holberton Tulsa, my contributions are towards implementing music recommendations for each artist based on similar artists from multiple databases.

<https://tulsamusiciandirectory.web.app/>

Object Detection

Holberton School Tulsa • 04/2023 – 04/2023

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

Holberton School Tulsa • 12/2022 – 12/2022

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

SKILLS

Languages and Tools: Python, JavaScript, C, MySQL, OpenCV, Bash, Conda, Cuda, XML, NumPy, SciPy, Jupyter, SQLite, SQLAlchemy, CSS, pandas, Matplotlib

Artificial Intelligence: Transfer Learning, Hyperparameter Tuning, Object Detection, RNN, Reinforcement Learning, Unsupervised Learning, Deep Learning, Supervised Learning, Data Processing

Deep Learning Frameworks: Keras, TensorFlow, PyTorch

Professional: Project Management, Equipment Validation, Conceptual Design, Research, Analysis