ZACH WILSTERMAN
MACHINE LEARNING ENGINEER

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PROFESSIONAL SUMMARY

Results-driven ML engineer with a proven background in project coordination and management. Highly skilled in communication and teaching, with an eye for detail and exceptional time management ability. Proficient in data research and analytics, and in implementing machine learning models using current technologies such as Tensorflow and PyTorch.

WORK EXPERIENCE

Student Tutor
Aug 2023 - Present
Holberton School — Tulsa, OK
- Provided tutoring in C programming and web development to students to ensure academic success
- Presented hour long live code sessions in front of an audience of **100+** students on topics such as "Intro to the C Programming Language" and "The Machine Learning Lifecycle"
- Conducted in-person performance reviews with students to grade and provide feedback on large multi-week projects

Project Coordinator
Jan 2023 - Jun 2023
APS FireCo — Tulsa, OK
- Optimized system installations through collaboration with technicians, customers, and local AHJs to complete projects on time and **100%** compliant with relevant laws and codes
- Managed and supervised multiple **$15k+** projects to design, install, and test pre-engineered systems, on-time and under budget
- Pioneered Project Coordinator role in order to facilitate the timely completion of backlogged projects, and increased monthly project completion rate by over **50%**

FE/PE Technician
Sep 2019 - Jun 2023
APS FireCo — Tulsa, OK
- Successfully trained 8 technicians for 2–4 months each, ensuring their success in required state licensing exams and progression to competent field technicians
- Achieved top performance at branch by generating revenue **50%** above technician average with greater than **65%** profit margin
- Over the first two years on the job, attained more than **10** relevant licenses and certificates, including state and federal licenses, and all major manufacturer certifications

Assistant Manager
May 2012 - Sep 2019
Quiktrip, Inc. — Tulsa, OK
- Managed teams of **4–8** clerks in order to maintain store quality standards while providing excellent customer service to **2500+** customers per shift
- Maintained greater than **90th** percentile in position for all tracked metrics including customer service, store cleanliness, and cash handling

SKILLS

Soft Skills: Teaching, Communication, Problem Solving, Team Leadership, Time Management, Project Management
Machine Learning Technologies: Python, Tensorflow, PyTorch, Keras, Scikit-Learn, NumPy, Pandas, AWS SageMaker, Google Cloud
Other Languages and Technologies: C, JavaScript, SQL, SQLite, REST APIs, Git, Linux, Bash

EDUCATION

Holberton School Tulsa
May 2022 - Dec 2023
Diploma in Computer Science and Machine Learning Engineering
Achievements:
- Chosen by peers as September 2022 **Student of the Month**
- Winner of **Best Overall** at 2023 Annual Chili Cook-off

About:
- 20-month software engineering school offering a peer- and project-based learning approach
- Foundations curriculum spans from fundamentals in C to Full Stack Web Development, including Front-End, Back-End, and DevOps engineering
- Machine Learning curriculum encompasses all aspects of ML, with a focus on mathematics and deep learning architectures, supervised- and unsupervised-learning techniques, reinforcement learning, and data science

University of Oklahoma
Aug 2010 - May 2012
Mechanical Engineering
- Recipient of **Oklahoma State Regents**' Academic Scholarship
- **Honors College** program participant
- Completed coursework in mathematics, physics, and engineering principles relevant to machine learning and data analysis
- Developed a strong foundation in problem-solving and analytical thinking

PROJECTS

TASM Visitor Check-in Portal
Dec 2023
github.com/conkobar/tasm-visitor-portal
- A digital check-in system for museum visitors
- Collects, securely stores, and efficiently processes digital visitor data to facilitate museum grant and funding applications
- Responsible for creation of self-contained dashboard to read, process, and display database insights in an intuitive format

Technologies: Pandas, Dash, Docker, Google Cloud Run, Firestore

YOLO Object Detection
Apr 2023
github.com/wilstermanz/object_detection
- Implements custom YOLO algorithm to classify objects in images
- Employs CV2 to outline objects and add confidence and class name

Technologies: Python, Tensorflow, NumPy, CV2

Space Bubbles
Dec 2022
github.com/wilstermanz/space-bubbles
- Arcade-style game inspired by Space Invaders and Bubble Shooter
- Created during the Holberton Hack Sprint in a three person team
- Responsible for collision detection, game logic, and artwork

Technologies: Python, Pygame, REST API, SQLite