Tim Wilson

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EDUCATION

University of Colorado Boulder   Aug. 2020 – May 2023
Bachelor of Science in Computer Science   *Boulder, CO*

Relevant Coursework: Data Structures, Computer Systems, Software Development Methods and Tools, Database Systems, Discrete Structures, Fundamentals of Human-Computer Interaction, Intensive Programming Workshop, Algorithms, Principles of Programming Languages, Theory of Computation, Numerical Computation, Operating Systems, Intro to Artificial Intelligence

WORK EXPERIENCE

DataAnnotation | *AI Trainer*   January 2024 – Present
- Critically evaluating code outputs of multiple AI language models. Testing functionality and providing detailed feedback and recommendations to optimize AI algorithms and enhance model accuracy. Primarily working with Python, HTML/CSS, and Java.

Doordash | *Delivery Driver*   Sep. 2018 – January 2024
- Partnered with DoorDash to provide efficient and timely delivery services to customers. Demonstrated strong organizational and time-management skills to ensure prompt and accurate order deliveries. Maintained a high level of customer satisfaction through friendly and professional interactions.

Target | *Guest Advocate*   August 2023 – October 2023
- Adapted to various roles at the store's front end, from handling transactions as a cashier to providing high quality customer service at the guest service/returns desk. Worked efficiently to deliver orders to customers through drive-up and go as well.

The Path Bike Shop | *Expediter*   September 2019 – July 2020
- Efficiently managed transactions at the register and attended to customer inquiries and calls, ensuring a seamless and customer-friendly work environment. Hands-on involvement in bike repair and maintenance, contributing to overall shop operations. Fueled a passion for mountain bikes, immersing myself in the intricacies of the industry and enhancing customer experiences.

PROJECTS

Senior Capstone | *Python, StreamLit UI, Docker, Git*   September 2022 – May 2023
- **Background:** L3Harris Technologies works alongside the US Space Force to track information about the orbits of satellites, rockets, and other space debris. In order to reduce the work orbital analysts have to do, L3Harris Technologies wanted to develop a robust ML model that is resistant to different kinds of attacks by potential adversaries, that is tolerant to mistakes made when classifying incoming data, and that can explain decisions to orbital analysts that haven't worked with the model.
- **Results:** Achieved outlier detection on data using the methods: Local Outlier Factor, KNN, Hurst Exponents, Hole detection. Simulated continuous retraining on data with the use of window parsing. Additionally, simulated attacks by using random data generation. This project included a fully implemented pipeline outputting all significant results to a StreamLit UI dashboard.

Robot Shopping Controller | *Python, Webots, Git*   November 2022 – December 2022
- **Background:** Asked to create a controller for a robot to shop in a grocery store. This robot was required to create a map of a store autonomously, and then navigate the store to find objects and place them in its cart.
- **Results:** The robot autonomously mapped a grocery store and then navigated the store to find objects. It used color blob detection to locate golden blocks. It then used inverse kinematics to control the arm in order to grab the blocks and drop them in a basket.

TECHNICAL SKILLS

Languages: C/C++, Python, SQL (Postgres), JavaScript, HTML/CSS, Scala
Developer Tools: Git, Trello, Jira, Docker, VS Code, IntelliJ
Libraries: Pandas, NumPy, Matplotlib, Scikit, Seaborn, PyTorch