MARVEL ZHANG

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Education

University of Wisconsin—Madison   **September 2021 – August 2025**
B.S. Information Science and Certificate in Data Science   *Madison, WI*

Relevant Coursework

Big Data Systems, Artificial Intelligence, Human-Computer Interaction, Info Architecture, Data Science Programming II

Experience

Data Analytics and Repair Intern   **June 2022 – August 2022**
Wahl Clipper Corporation   *Sterling, IL*

- Performed data analysis using Python and Microsoft Excel to identify product performance patterns from various websites.
- Maintained a 93% accurate Python-based monitoring system to automate daily checks of authorized product color offerings across e-commerce platforms.
- Helped develop statistical models to analyze market trends, product effectiveness, and product sales under guidance of supervisor.
- Participated in team meetings presenting visualizations on sales data and clipper data giving data-driven marketing recommendations.
- Gained hands-on experience in clipper repair and consumer product maintenance recognizing patterns in clipper degradation and common issues in certain products.

In-Store Shopper   **September 2025 – Present**
Whole Foods Market   *Madison, WI*

- Analyzed real-time inventory data and shopping patterns to optimize fulfillment routes, improving efficiency.
- Monitored key performance indicators including pick rates, using data insights to continuously improve service delivery.
- Utilized mobile applications and digital systems to collect, process, and act on real-time data including inventory levels.

Student Helper   **May 2023 – August 2025**
Babcock Dairy Store   *Madison, WI*

- Manage daily operations including sales, inventory restocking, and store maintenance.
- Process transactions and handle customer service responsibilities.
- Execute order requests and inventory management tasks.

Projects

Multi-Source Loan Data Analysis | *Python, SQL, Google Cloud Platform, Pandas*

- Developed an end-to-end data analysis pipeline integrating geographic data, financial (HDMA) records, and real-time loan applications using Google Cloud services.
- Performed geospatial analysis using BigQuery ML to identify loan distribution patterns across Wisconsin counties and built a linear regression model to analyze income-loan relationships.
- Created automated ETL processes to transform and merge data from multiple sources (Parquet files, Google Sheets, public datasets) into a unified analytical framework for financial insights.

PriceCompare | *HTML, CSS, JavaScript, Python*

- Developed a responsive web application that allows users to compare product prices across multiple e-commerce platforms including Amazon and eBay.
- Implemented a Python web scraper using BeautifulSoup to extract real-time product data.
- Created an intuitive user interface with HTML, CSS, and JavaScript for seamless searching and browsing functionality.
- Designed and integrated a Flask API to connect front-end requests with backend web scraping.

Professional Portfolio | *JavaScript, CSS, HTML*

- Designed and developed a responsive, mobile-first portfolio website demonstrating full-stack web development capabilities.
- Implemented interactive JavaScript elements with smooth animations and accessibility features following WCAG guidelines.
- Utilized CSS Grid and Flexbox for responsive design across multiple device breakpoints.
- Applied user experience (UX) principles to create intuitive navigation and information architecture.

Technical Skills

Languages: Python, R, BASH, SQL, HTML, CSS, JavaScript, Docker, Spark SQL, Cassandra Query Language, Kafka, NumPy
Developer Tools: VS Code, Eclipse, IntelliJ IDEA, Tableau, RStudio, Terminal, Microsoft Excel