Trinity Washington

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EDUCATION

Bachelor of Science
Ball State University, Muncie, IN
Major: Computer Science with concentration in data Analyst
Honors: Dean's List - 6 semester
GPA: 3.8

TECHNICAL & ANALYTICAL SKILLS

- Programming: Python (Advanced), Java, SQL/MySQL, R, MongoDB, C
- Data Analysis & Visualization: Tableau, Microsoft Excel, R Markdown, Jupyter Notebook
- Databases: Microsoft SQL Server, PostgreSQL, MySQL
- Software & Tools: Git/GitHub, .NET, Agile/Scrum, IntelliJ, VS Code, MySQL Workbench
- Systems: Linux/UNIX, REST APIs, client-server applications
- Machine Learning: Applied ML models for prediction and classification
- Analytics Concepts: Data cleaning, exploratory data analysis (EDA), normalization, clustering, trend analysis, data reporting, business insights
- Professional Skills: Microsoft Word, Excel (Pivot Tables, formulas, dashboards), PowerPoint, data documentation, analytical thinking, communication, teamwork, problem solving, organization, time management

RESEARCH EXPERIENCE

INLSAMP Scholar Research Assistant
Department of Science and Humanities, Ball State University | **Advisor: Dr. Michael Skoby**
Project Title: Improving Particle Identification in Quark-Gluon Plasma Collisions
- **Objective**: Investigated the role of the strong force in particle interactions, particularly neutron formation.
- **Methodology**: Applied ROOT, artificial intelligence (AI), and machine learning (ML) to analyze and
- interpret data.
- **Key Contributions**:
  - Developed data visualizations for research analysis.
  - Conducted and analyzed simulated particle collision data.
  - Compared traditional data analysis techniques with ML models.

CAPSTONE PROJECT

Software Engineering Project – Accutech
- **Project Title:** Proprietary E-Signature System
- **Objective:** Enhance Accutech's in-house e-signature platform to support secure, multi-document and
- multi-client workflows.
- **Methodology:** Agile/Scrum development with **.NET backend**, **Vue.js front-end**, and **SQL**
- **Server/PostgreSQL** database integration.
- **Key Contributions:**
  - Built backend services in **.NET** for workflow and audit trails.
  - Designed **UI/UX interfaces** to improve configuration and signer experience.
  - Added **form features** (validation rules, pre-filled data, drawing-based signatures).
  - Ensured secure data handling with **enterprise database integration**

TECHNICAL & DATA PROJECTS

- **Tableau Dashboards:** Built interactive dashboards analyzing student performance (by parental education and test prep), Halloween candy distribution vs. economy/weather, and global development indicators.
- **SQL Database Applications (MySQL):** Designed and queried relational databases, implemented CRUD operations in Python and Java, and compared relational vs. NoSQL models.
- **Call Center Simulation (Java):** Modeled a multi-agent system with synchronized threads, focusing on efficiency and queueing analysis.
- Data Insight Reporting: Analyzed datasets to identify trends, created visual dashboards, and summarized findings to support decision-making.
- Sales Performance Dashboard: Analyzed transactional data using Python and SQL, created Tableau dashboard showing revenue trends, top products, and store performance.
- Customer Behavior Analysis: Segmented customers by spending patterns and visualized insights using Tableau and Excel.
- Excel Business Report: Built pivot tables and dashboards to summarize sales trends and product performance.
- SQL Reporting Project: Wrote aggregation queries to generate monthly sales reports and performance summaries.

WORK EXPERIENCE

Teaching Assistant
Ball State University | **January 2023 – Present**
- Assisted instructors in Python and Java programming courses.
- Provided academic support, tutoring, and graded assignments.

Consultant
Target, Fishers, IN | **November 2023 – Present**
- Provided personalized customer assistance and product recommendations.
- Processed transactions efficiently while maintaining excellent customer service.

LEADERSHIP & INVOLVEMENT

- Ball State Alpha Lambda Delta Honor Society [August 2023 - Present]
- National Association for Colored Women Historian, Parliamentarian [January 2024 - Present]
  - Maintain organizational records and meeting documentation
  - Support leadership operations and ensure meetings follow proper procedure
- CS341 Community Engagement – Ball State University [January 2025 - Present]
  - Designed learning activities for middle school students and delivered STEM-focused programs
  - Collaborated with Northside & Inspire while strengthening leadership and communication skills