

# Trinity Washington

614-800-9004 | Trinityparis2@icloud.com | LinkedIn: <https://www.linkedin.com/in/trinity-washington/> | GitHub: <https://github.com/Trinity0827> | U.S. Citizen

## 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

Accutech Systems Corporations

- **Project Title:** Cheetah Sign: 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.
- **VeloCityX Fan Engagement Analytics:** Analyzed engagement and purchase data; built dashboards to support monetization insights
- **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

