

Keegan Fontaine

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Experience

Specialist Software Engineer

August 2024 - Present

Ball State Digital Corps, Muncie, IN

- Assisted in the development of developer training and onboarding content, guiding new employees through complex codebases and project architecture.
- Led the development of a new admin dashboard for the Ball State Orchid Greenhouse, digitally managing several thousand plant species.
- Facilitated the development of new tech stacks to be used by the team, improving productivity and streamlining developer workflows.

Apprentice Software Engineer

September 2023 - August 2024

Ball State Digital Corps, Muncie, IN

- Collaborated with an interdisciplinary team of Ball State students to develop innovative software solutions that addressed the needs of the Muncie community.
- Engaged directly with Ball State staff and clients to design, implement, and maintain full-stack web applications.
- Integrated numerous systems with Ball State's Single Sign On system, streamlining the user authentication processes.

Research

Undergraduate Data Science Researcher

August 2025 - Present

The Data Mine, Purdue University, West Lafayette, IN

- Used Pandas, NumPy, and Matplotlib to clean, analyze, and visualize large Forest Inventory and Analysis (FIA) datasets with the USDA.
- Collaborated with faculty and fellow researchers to develop complex predictive models for FIA data across the US.
- Utilized Google Earth Engine satellite data to create statistical modeling libraries for FIA data.

Education

Ball State University

August 2023 - May 2027

Bachelor's of Computer Science

Bachelor's of Data Analytics

Minor in Mathematics

Skills

- | | | |
|--------------------|--------------------------------|------------------------------------|
| • HTML | • CSS | • JavaScript |
| • TypeScript | • React | • NodeJS |
| • MVC Architecture | • Version Control (Git/Github) | • JS Build Tools (Webpack, Rollup) |