

# Jayden Merrick

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## EDUCATION

**University of Wisconsin-Madison** | Madison, WI

Bachelor of Science: Computer Science

Expected 2027

- Certificate in Data Science
- Focus Area: Machine Learning & Computational Biology
- Relevant Coursework: Medical Image Analysis, Artificial Intelligence, Algorithms, Introduction to Bioinformatics, Introductory Biology

## PROJECTS

**Serverless Data Ingestion & Fuzzy Matching API** | Independent Project

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Frontend and Backend Developer

- Communicated with Campus and Visitor Relations to establish project design and solve real-world data problems analyzing employee contact data
- Designed and developed frontend application using HTML/CSS, JavaScript, and Flask API.
- Designed and developed backend python application using panda libraries and fuzzy-matching algorithm.
- Dockerized project to allow for easy user access and use within Campus and Visitor Relations

**Analyzing Noncoding DNA Mutation for Melanoma Cancer with CNN AI Model** | Independent Project

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Lead Developer

- Designed and implemented a Convolutional Neural Network (CNN) for identifying noncoding DNA mutations causally linked to melanoma cancer cells
- Developed supervised learning framework using genomic variant datasets to train model to recognize subtle, local sequence motifs with possible melanoma linkage.

## WORK EXPERIENCE

**Campus and Visitor Relations** | Madison, WI

May 2025 – Present

Information Guide Supervisor

- Served as primary source for daily visitors and campus tourists, providing information and resources along with answering questions.
- Utilized and managed database to track visitor inquires, centralize general campus information, and relay campus resources.
- Collaborated and communicated with team to provide accurate information, check in guests for tours, and resolve issues.

**Kwik Trip Inc.** | Weston, WI

September 2020 – Present

Guest Service

- Managed cash and credit card transactions for in-store and gas purchases during all hours of the day, including high volume and peak-hours.
- Volunteered to cover emergency shift coverage and staffing issues, consistently working 5+ additional shifts per month beyond schedule.
- Trained 5+ new employees behind the register and kitchen.

## INVOLVEMENT EXPERIENCE

**Badger BioData Initiative (BDI)** | Madison, WI

March 2026 – Present

Founder & President

- Established and led the university first organization dedicated to collaborate projects for bioinformatics, computational biology, and biomedical data science.
- Designed club structure to organize student teams for semester-long research projects
- Creation of projects reinforced skills with Python, R, statistical models, data visualization, and genomic analysis

## GENERAL SKILLS

**Programming:** Python, C, R, Java, HTML/CSS, JavaScript

**Frameworks & Tools:** Pandas, GitHub, VS Code, Linux, Bash, Vim