

BEN ZAZYCKI

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EDUCATION

Miami University, Oxford, OH

Expected Graduation May 2027

Bachelor of Science, Computer Science

- 3.99 GPA | Mathematics Minor, Statistics Minor
- Honors College | Choose Ohio First Machine Learning Scholar
- Relevant course work: Object-Oriented Programming, Data Structures, Algorithms, Machine Learning, Software Engineering, Systems I & II, Web Application Programming, Discrete Math, Linear Algebra, Proofs, Calculus I, II, & III, Intro to Statistics, Statistical Modeling

PROJECTS

Bioinformatics/Single-cell RNA sequencing project, Miami University

January 2025 - Ongoing

- Research at the intersection of Data Science, Computer Science, and Biology
- Ongoing independent project mentored by Dr. Chun Liang in the Biology Department
- Focusing on using machine learning within biological data applications
- Performing a comprehensive comparison of popular tools for Single-Cell RNA Sequence Analysis
- Particular focus on clustering algorithms (KNN, SNN, Louvain, Leiden, SC3, etc.)
- Experience in R and Python workflows as well as interoperability
- Future publication, date TBD

AI chatbot Android app, Miami University – CSE 449

January 2025

- Built an app kiosk meant to assist nonprofit organizations in Manchester, United Kingdom
- Gained hands-on experience with Android development and Gradle environment
- Earned proactive experience with Apache Ubuntu servers and the OpenAI API
- Worked with client to meet shifting needs and provide customization options

Machine learning fake news classifier, Miami University - CSE 432

January 2024 - May 2024

- Developed a robust fake news classifier model based on the Naive Bayes algorithm in a semester-long project
- Collaborated with other team members to produce and process a large data set (10,000+ points)
- Fine-tuned model parameters using metrics such as precision, F1 score, etc.
- Gained practical skills in Natural Language Processing and with the Naive Bayes model

EXPERIENCE

Miami University Hughes Scholarship Program, Oxford, OH

May 2025 - August 2025

Researcher/Intern

- Summer fellowship for undergraduate researchers within the Biology, Microbiology, and Chemistry departments
- Went through a selective application process; limited number of spots available
- Worked on scRNA-seq project with Dr. Liang (see above)
- Full-time position

Spirit Emergency Medical Services, Greenville, OH

June 2024 - August 2024

Data Analyst Intern

- Spearheaded a highly successful debt collection project with data-driven decision-making, resulting in over \$300,000 in company savings over three months
- Collaborated with medical billing experts to create biweekly reports for the management team
- Led the administrative oversight of a database containing tens of thousands of patients