

Jackson Bean

jhbean130@gmail.com • Columbus, OH • jackson-bean.com

EDUCATION

The Ohio State University

Expected Graduation: May 2026

Honors College of Engineering

Columbus, OH

B.S. Computer Science and Engineering & Mathematics

GPA: 4.00/4.00

QUALIFICATIONS

- **Programming Languages:** JavaScript, TypeScript, Java, C/C++, CSS, HTML, Ruby, Python, x86 Assembly
- **Frameworks:** React, Express.js, Middleman, Ruby on Rails
- **Tools:** Linux, UNIX, Microsoft Office, GDB, Makefile, Git, GitHub, GitLab, Valgrind, Visual Studio, Xcode, Chrome DevTools, Postman, Google Calendar Web API, Canvas RESTful API
- **Coursework:** Data Structures & Algorithms, Object Oriented Programming, Mathematical Statistics, Real Analysis, Calculus I-III, Linear Algebra, Low-Level Programming, Operating Systems, AI/ML

WORK EXPERIENCE

The Ohio State University College of Industrial & Systems Engineering

May 2024 – September 2024

Back-End Developer and Research Intern

Columbus, OH

- Worked with the Cognitive Systems Engineering Lab (CSEL) to develop two new contingency plans for UAMs
- Developed C++ code to run more than 40 simulations that enacted parameter-determined flight pathing
- Plotted results of simulations on six dynamic charts and graphs using Python with Pyplot Dash

The Ohio State University Department of Biomedical Informatics

May 2023 – August 2023

Summer Research Intern

Columbus, OH

- Developed machine learning code in Python to read over one million instances of patient data from Google Cloud and classify outcomes with >80% accuracy
- Analyzed code results using R and Python with Matplotlib and presented findings at a poster session with over sixty professors within the department in attendance

The Ohio State University College of Arts and Sciences

August 2024 – Present

Student Instructional Associate

Columbus, OH

- Teach Business Algebra twice a week to 72 students divided into two separate sections
- Answer at least twenty weekly questions about course material in a concise and understandable manner
- Prepare, grade, and proctor ten weekly quizzes and four monthly exams over semester-long course content

PROJECTS

Full-Stack API Web Application

February 2025 – March 2025

- Built a back end for an API using MongoDB to store data and TypeScript with Express to handle HTTP routing
- Constructed a front-end component using React with Typescript to display results of GET requests to the API

Personal Portfolio Website

July 2024 – March 2025

- Built a portfolio website from scratch using JavaScript, HTML, and CSS
- Utilized UX principles to select visuals and maximize accessibility across different devices

HONORS AND ACTIVITIES

- Morrill Excellence Scholarship recipient
- Involved member and participant in Ohio State's Cybersecurity, OpenSource, and Artificial Intelligence Clubs
- Experienced in building high-performance desktop computers optimized for development and gaming