

# Rob Donahey

Columbus, Ohio

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## Objective

Seeking a full-time entry-level software engineering position utilizing engineering principles and strong logical skills.

## Education

The Ohio State University, Columbus, Ohio

- B.S. Computer Science and Engineering, December 2024, Mathematics, French Minors **GPA: 3.87 / 4.00**
- Honors: Tau Beta Pi, Phi Kappa Phi, Dean's List ×6

## Qualifications

- Object-Oriented Design: Explored class and interface design through coursework and project experience
- Data Structures: Experience with collections, trees, hashing, sorts
- Programming Languages and Related Skills: Java, C++, C, Python, Numpy, Kotlin, HTML, CSS, JS, Ruby, Rails, Bootstrap, SQL, Gradle, MATLAB, Word, Excel, PowerPoint, Git, Agile Methodology
- Coursework: Software Components, Development, and Design; Data Structures and Algorithms; Systems Programming; Operating Systems; Intro AI; Principles of Programming Languages; Software Engineering Techniques; Computer Networks; Formal Languages and Automata; Software Requirements Analysis
- Languages: Native English competency, fluent in French (C1)

## Engineering Projects

Capstone Project: STEMcoding Learning Management System, August 2024 – December 2024

- Improved and maintained an interactive learning application for an Ohio high school course curriculum
- Updated styling based on new Bootstrap version and targeted security issues and build warnings
- Prepared documentation and presented three demos to showcase application changes and work processes

Mobile App Development: Nocturnal, August 2024 – December 2024

- Created an Android application for a mobile app development course utilizing Jetpack Compose, Firebase, Mapbox
- Coded the app based on object-oriented design principles, wrote documentation and tests
- Submitted a social-media style final application that updates based on incoming posts from different users

Junior Capstone Project: Web Applications, May 2023 – August 2023

- Learned to build web applications by creating a card game and an app that connects teachers to student assistants
- Utilized web application tools with Ruby on Rails and version control with Git to create both apps in a team
- Completed and presented the final project, gained skills in team-based software development and project management

Hard Drive Model, May 2023

- Explored how hard drives are modeled by an operating system, inspired by an activity proposed by a professor
- Wrote a model of a rudimentary hard drive which can store primitive data and map sector use or failure

## Professional Experience

OSU CSE Department, Teaching Assistant, August 2022 – June 2023 and September 2024 – December 2024

- Improved communication skills, particularly with language relevant to software development and programming
- Gained better understanding of software components and design logic by providing feedback and grading
- Demonstrated time management skills with 10-15 hours of work per week alongside full class schedule

## Leadership and Activities

- Eagle Scout: Gained leadership skills, developed a final project for the community, and experienced life-changing adventures
- Sports: Active in intramural sports and compete with friends for recreation, running, tennis, soccer