

# Richard Trinh

[richardtrinh452@gmail.com](mailto:richardtrinh452@gmail.com) | [linkedin.com/in/rtrinh760](https://www.linkedin.com/in/rtrinh760) | [rtrinh760.github.io/portfolio/](https://rtrinh760.github.io/portfolio/)

## EDUCATION

### Colby College

Bachelor of Arts in Computer Science

GPA: 3.74

Waterville, ME

May 2026

Relevant Courses: Data Structures and Algorithms, Analysis of Algorithms, Object-Oriented Programming, Data Analysis and Visualization, Computer Organization, Computer Vision, Linear Algebra

## TECHNICAL SKILLS

**Languages:** Python, Java, C#, JavaScript, TypeScript, HTML, CSS, C, C++, Golang, SQL

**Frameworks/Tools/Databases:** React, Node.js, Next.js, .NET, Flask, Docker, Git, Postman, PostgreSQL, Oracle

## EXPERIENCE

### Terracon

Software Engineer Intern

Olathe, KS

June 2023 – August 2023

- Developed data collection software with **C#, .NET, and Azure**, removing the need for manual invoice spreadsheets.
- Implemented JSON data retrieval via REST APIs on an **ASP.NET** backend server, reducing invoice retrieval times by 90%.
- Improved UX of Terracon's project management tool for 100+ internal users by implementing a **.NET Blazor** interface that stores project searches and table view layouts.
- Integrated apps with **CI/CD**, including pull requests, code reviews, and unit/integration testing.
- **Technologies:** C#, .NET, Azure, Oracle, SQL, Git, Postman

### Colby College

Computer Science Teaching Assistant

Waterville, ME

September 2023 – Present

- Held weekly office hours to help students with DSA & OOP projects and concepts in **Java**.
- Conducted code reviews on 30+ student projects to debug issues and provide constructive feedback for improvement.

### Colby College

IT Support Technician

Waterville, ME

January 2023 – May 2023

- Consulted customers through phone calls, emails, and walk-ins, resolving 10+ tickets weekly.
- Increased user satisfaction by assisting non-technical users with simplified guides and explanations.

## PROJECTS

[Coral Reef Annotator](#) | Python, OpenCV, TensorFlow, Keras

January 2023

- Constructed U-NET segmentation machine learning model to annotate 1,500+ atoll satellite images.
- Leveraged **Python** ML libraries to achieve classification F1 scores of ~86% via hyperparameter tuning.

[ScholarAI](#) | Next.js, React, GPT-3 API, PostgreSQL

March 2023

- Full-stack web app that uploads PDF text to GPT-3 model through RESTful APIs for time-efficient document searching.
- Won the **Most Innovative Solution** category from 150+ participants at the GitHub All In Hackathon.

[Micromouse](#) | Python, CircuitPython, Git, Raspberry Pi

October 2022 – Present

- Designed a pathfinding robot that utilizes floodfill algorithms to traverse the shortest path toward the maze center.
- Collaborated with student developers to implement movement functions in **CircuitPython** and **Raspberry Pi**.

## LEADERSHIP & ACTIVITIES

Colby Robotics – Co-President

October 2023 - Present

Colby Hackathon Club – Member

October 2022 - Present

Dataiku Hackathon – 1<sup>st</sup> Place in Completeness of ML Modeling

October 2022