

# Richard Trinh

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## Education

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**Colby College** – B.A. in Computer Science, GPA: 3.74

May 2026

## Skills

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

**Frameworks/Software:** React, Node.js, .NET Framework, Flask, Docker, Git, Postman, Azure, PostgreSQL

## Experience

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**Incoming Software Engineer Intern**, Netsmart – Overland Park, KS

November 2023 – Present

**CS Teaching Assistant**, Colby College – Waterville, ME

September 2023 – Present

- Held weekly office hours to help students with DSA & OOP projects and concepts in Java
- Conducted code reviews on 50+ student projects to debug issues and provide constructive feedback, improving average project grades by 10%

**Full Stack Software Engineer Intern**, Terracon – Olathe, KS

June 2023 – August 2023

- Developed a microservice to automate invoice data collection with C#, .NET, Azure, and Postman by implementing JSON data retrieval on an ASP.NET backend server, reducing processing times by 90%
- Designed an interface in React to store engineering project queries and table layouts with Oracle and SQL, improving the UI/UX of a project management service for 1000+ internal users
- Integrated apps with Git and Azure DevOps CI/CD pipelines, decreasing deployment latency by 40%

**Electronics Technician Intern**, Garmin – Olathe, KS

August 2021 – December 2021

- Led a team of 5 interns to build a transistor tester utilizing oscilloscopes, multimeters, and soldering techniques
- Wrote detailed documentation for the tester's features and procedures, decreasing product errors by 20%

## Projects

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**Scholarship Searcher** – *React Native, Flask, Firebase*

[rtrinh760/scholar\\_ninja](https://github.com/rtrinh760/scholar_ninja)

- Mobile app to help students find, track, and save personalized scholarships via web scraping
- Implemented Flask routes for login and utilized Firebase to store user and scholarship data

**AI Video Summarizer** – *Next.js, React, PostgreSQL*

[rtrinh760/vidsnap](https://github.com/rtrinh760/vidsnap)

- Full-stack transcript analyzer that generates summaries and quizzes for study enhancement
- Developed RESTful API routes in Next.js for chunking and analyzing text via tokenization to GPT-3.5 and pulling transcripts from YouTube APIs

**Coral Reef Annotator** – *Python, OpenCV, TensorFlow, Keras*

[rtrinh760/atoll-segmentation](https://github.com/rtrinh760/atoll-segmentation)

- U-NET segmentation ML model to classify reef islands for climate change impact research
- Leveraged Python ML libraries to annotate 1,500+ atoll images and achieve F1 scores of ~86% via hyperparameter tuning

## Leadership

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**Co-President**, Colby Robotics

October 2023 – Present

- Established organizational structure, recruited members, and created project timelines for Micromouse
- Coordinated workshops including CircuitPython, Algorithms, Soldering, and 3D Printing