

Richard Trinh

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Education

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

May 2026

Skills

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

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

Experience

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 for Java DSA & OOP project help, improving average grades by 20%
- Conducted code reviews on 50+ student projects to debug issues and provide feedback

Full Stack Software Engineer Intern, Terracon – Olathe, KS

June 2023 – August 2023

- Developed a data automation microservice with C#, .NET, and Azure, improving data accuracy of finance analytics dashboard app by 60%
- Optimized the microservice's SQL queries to Snowflake, decreasing pipeline processing times by 55%
- Designed an interface in React to store engineering project queries and table layouts in Oracle, enhancing the UI/UX of a project management service for 1000+ internal users
- Integrated apps with Git and Azure DevOps CI/CD pipelines, ensuring reductions in deployment latency

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 product's features and procedures, boosting testing accuracy by 70%

Projects

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 through 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% with hyperparameter tuning

Leadership

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