

Richard Trinh

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Education

Colby College – Bachelor of Arts in Computer Science

May 2026

Skills

Languages: Python, Java, C#, JavaScript, TypeScript, 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 for a Coupa analytics dashboard app with C#, .NET, and Azure, improving data accuracy by 60% and lowering upload duration by 90%
- 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

ITS Student Support Technician, Colby College – Waterville, ME

January 2023 – May 2023

- Consulted customers through calls, emails, and walk-ins to fix technology issues, resolving 10+ tickets weekly
- Increased user satisfaction by assisting non-technical users with simplified explanations and instructions

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

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

2023

- 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

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

2023

- 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%

Scholarship Searcher – *React Native, Flask, Firebase*

2023

- 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

CPU and Assembler – *VHDL, Quartus II, Python*

2023

- Full-fledged CPU including components such as ROM, RAM, ALU, registers, I/O, state machines, etc.
- Built a Python assembler that reads assembly language scripts to run programs on FPGA board