

# Richard Trinh

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## Education

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**Colby College** – Bachelor of Arts in Computer Science

May 2026

## Skills

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**Languages:** Java, C#, Python, JavaScript, TypeScript, C, C++, SQL, VHDL

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

## Experience

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

November 2023 – Present

**Computer Science 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

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

2023

- Full-fledged CPU including components such as ROM, RAM, ALU, registers, I/O, state machines, etc.
- Utilized finite state machine (FSM) design principles to create a well-structured control unit
- Built a Python assembler that reads assembly language scripts to run programs on FPGA board

**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%

**Sudoku Solver** – Java, Git

2022

- Created a Java algorithm simulation and 9x9 board generator for solving Sudoku boards
- Solved boards with 90% efficiency, including output statistics displaying total time and comparisons

## 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