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

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 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

Scholarship Searcher App | *React Native, Flask, Firebase*
- Designed a mobile app to help students find personalized scholarships based on user profiles and preferences
- Implemented **Flask** routes for login and utilized **Firebase** to store user and scholarship data

AI Video Summarizer | *Next.js, React, PostgreSQL*
- Created a full-stack video 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 video APIs

Coral Reef Annotator | *Python, OpenCV, TensorFlow, Keras*
- Constructed U-NET segmentation ML model to classify reef islands for climate impact research
- Leveraged **Python** ML libraries to annotate 1,500+ atoll images and achieve F1 scores of ~86% via 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

Dataiku Hackathon, 1st Place in ML Modeling **October 2022**
- Led a team of 3 to create ML models from 1,000+ BTM Nest data points using **Python** and **Dataiku**