

NGUYEN TRAN

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Education

University of Rochester

May 2026

Bachelor of Science (B.S) in Computer Science - Major GPA: 4.00

Rochester, NY

- **Coursework:** Database Systems, Computational Systems, Data Structures & Algorithms, Artificial Intelligence

Technical Skills

Languages: Java, Python, C++, JavaScript, Golang, SQL (PostgreSQL), TypeScript, HTML/CSS, PHP

Frameworks: React.js, Springboot, Node.js, Express, Firebase, Rest APIs, gRPC, Gin

Tools and OS: Git, MongoDB, Amazon Web Services (AWS), Docker, Redis, Spanner, Windows, Linux

Experience

Waymo

Jun 2024 – Aug 2024

Software Engineer Intern

Mountain View, CA

- Built an RPC service used by 20 internal teams in Go to serve real-time Waymo car info, serving 1000 queries per second
- Reduced fetching latency by 50% by rewriting 4 APIs that update data every 5 seconds by Go, SpannerDB, SQL, Bazel
- Updated a gRPC shared by 11 services to reduce 20% query time by extending Protobuf definition & API logic by C++
- Deployed new infrastructure to production environments, monitored, and integrated into 30 clients by Borg & Grafana

Beetsoft

Jul 2023 – Aug 2023

Software Development Engineer Intern

Hanoi, VN

- Programmed the API for “Golden Hours” function, increase revenue by 35% for a voting system using Java Springboot
- Improved observability by building 18 graphs using Grafana, Prometheus, and Docker, detecting 5 potential regressions
- Created a system notification feature, saving ~\$1,000 a day in server costs by Java, MySQL, and React (JavaScript)
- Developed countdown and voting instruction for mobile view reaching 500,000+ users by React, Node.js, TypeScript

FPT Information System

May 2023 – Jul 2023

Software Engineering Intern

Hanoi, VN

- Upgraded 2 API modules in base API repository of 40+ projects by PHP, Python (Flask), and PostgreSQL in Linux OS
- Increased test coverage from 65% to 100% by performing unit testing for ~ 30 API endpoints using PHP and Python
- Designed the database schema for an internal time tracking tool used by 100+ employees in the company using SQL
- Refactored the front-end for a website with 200,000+ daily views with React (JavaScript), Redux, Axios, and Node.js

Hajim School of Engineering

Sep 2023 – Present

Teaching Assistant

Rochester, NY

- Managed instruction for 100+ students, graded 300+ assignments while running 2.5-hour weekly labs, offering expertise on Java, Python, PHP, SQL, HTML, CSS, Data Structures & Algorithms and leading 28+ groups in Agile-drive projects

Projects

YouTube Loop Extension ([Github](#))

Mar 2024 – Jun 2024

- Implemented 10 API endpoints with Go (Gin) to manage YouTube looping snippets and playlists to AWS DynamoDB
- Secured API secrets when sending requests to Google Extension by integrating AWS API Gateway and AWS Lambda

PDF Chatbot ([Github](#))

Aug 2023 – Nov 2023

- Composed the application UI with React (JavaScript) & Redux and migrated AWS S3 buckets to store 100+ PDF files
- Engineered the chatbot in TypeScript by applying LangChain & OpenAI store in PineconeDB of 1,500+ dimensions

Leadership

The Learning Center at UofR

Jan 2023 – Present

Tutor and Study Group Leader

Rochester, NY

- Improved grades by 20% for 25+ students through weekly study groups with 15+ students in Discrete Math and 8 1-1 Computer Science tutoring sessions, covering topics like Artificial Intelligence, Dynamic Programming, and Graphics

Google Student Developer Club (GDSC)

Aug 2022 – May 2024

Technical Lead

Rochester, NY

- Devised 6+ events with Tech Team about teaching new skills or presenting GDSC projects, attracting 1,000+ people
- Mentored and guided about 20 GDSC members throughout the projects and addressed concerns relevant to the process