

An Nguyen Tran

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PROJECTS

Gnar Bot

Java & Kotlin. Project leader and programmer of a full-stack chat-bot that streams music on Discord, an online communications service. Handled several system admin responsibilities for the server. Self-funded project through Patreon.

Thirteen

Rust & TypeScript. An online 4 player implementation of a Vietnamese card game. Used TypeScript for the frontend and Rust for the backend.

Lobos, Kaiper, & Waffles

Java & Kotlin. Exploratory projects into the realm of compilers and interpreters. Created a static program analyzer and interpreter, and also attempted to implement a language for Oracle's GraalVM.

EDUCATION

Undergraduate in Computer Science

California Institute of Technology (Caltech) • Pasadena, CA • 2023

FRESHMAN COURSEWORK

CS 1: Computer Science Fundamentals

Computer Science • Python

Ma6a: Discrete Mathematics

Mathematics

CS 2: Intro to Programming Methods (Winter 2020)

Computer Science • Java

CS 21: Decidability and Tractability (Winter 2020)

Computer Science • Complexity Theory

CS 3: Intro to Software Engineering (Spring 2020)

Computer Science • C

INVOLVEMENT

Caltech Robotics Team

California Institute of Technology (Caltech) • Software Team Member • October 2019 – Present

Participating in the robotics team's software division. Used Robotic Operating System (ROS) and Unix to enable robots to autonomously complete competition tasks.

ACM-ICPC Competition

Riverside Community College • Competitor • November 2019

Competed in the regionals ICPC programming competition. Placed 31 out of 88 on freshman year.

Computer Science Club

Langham Creek High School • President • 2017 – 2019

Handled meetings, club agenda, and lead discussions on exploratory topics in computer science. Organized and participated in local competitions like HP Code Wars.

Science Olympiad

Langham Creek High School • State Team Member • 2016 – 2019

Participated as a state team member and competed in Science Olympiad invitationals. Specialized in topics such as optics, remote sensing, astronomy, and circuit lab. Won Gold medal in Optics at the Texas Science Olympiad state competition.

SKILLS

Front End: HTML, CSS/SCSS, Javascript/TypeScript

JVM: Java, Kotlin, Gradle

Python, Node.js, Unix, Git, C & C++