

ANDI QU

I Build Stuff

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📍 Cambridge, MA

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EXPERIENCE

Undergraduate Research Assistant

USAF-MIT AI Accelerator

📅 Dec 2021 – Ongoing

📍 Cambridge, MA

Use Unity and reinforcement learning to develop AIs to assist human pilots

Undergraduate Research Assistant

MIT Computer Science and Artificial Intelligence Laboratory

📅 Sep 2021 – Ongoing

📍 Cambridge, MA

Use the Z3 theorem prover to design an experimental hardware compiler

Junior Developer

Business Science Corporation

📅 Jan 2021 – Aug 2021

📍 Johannesburg, South Africa

- Created an internal Excel add-in for tracking project revenue and employee allocations using Office.js and Azure functions
- Helped build automation tools for Rand Merchant Bank and Woolworths using Angular and ASP.NET
- Created data visualizations for Imperial Logistics using Plotly to optimize fuel spend

Core Team Member

USACO Guide

📅 Jun 2020 – Dec 2021

- Write solution analyses for the practice problems presented in the guide to help students excel in USACO contests
- Co-author learning modules for topics like the Knuth-Morris-Pratt algorithm used in the Gold and Platinum divisions

EDUCATION

Bachelor's Degree

Massachusetts Institute of Technology

📅 Sep 2021 – Ongoing

📍 Cambridge, MA

Majoring in computation and cognition

High School

St John's College

📅 Jan 2016 – Dec 2020

📍 Johannesburg, South Africa

96.4% GPA (dux scholar) and 8 distinctions in final exams

ABOUT ME

I am a passionate and creative college student seeking a career in computer science. I am interested in learning more about UI/UX design, programming language theory, and program synthesis

AWARDS



International Olympiad in Informatics bronze medal

2020 and 2021 – Singapore



International Mathematics Olympiad bronze medal

2020 – St Petersburg, Russia



South-African Programming Olympiad winner

2019 and 2020



South-African Mathematics Olympiad winner

2017 and 2020



Pan-African Mathematics Olympiad silver medal

2019 – Cape Town, South Africa



Google Code-In grand prize winner

2018 – Aptorium

SKILLS

C++

Mathematical problem-solving

Competitive programming

Git

Python

Django

Flask

Plotly

Pandas

Discord.py

JavaScript

AngularJS

React

C#

Azure Functions

Unity

EF Core

Blazor

ASP.NET

Rust

Yew

Rocket

Lisp

Racket

Z3 theorem prover