

RAEES RAJWANI

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Mumbai 400050, Maharashtra, India

EMPLOYMENT

Software Development Engineer 1,

Masai School, Bengaluru, India - October 2020 - Present

- **Admissions Platform:** Built Masai School's in-house admission system. It includes an external facing website and user-centric admission process, and an internal facing admin dashboard with several features including the ability to allow admissions staff to move candidates through the admissions process, and communicate with them through targeted emails/SMS'es. **Technologies used: Python, FastAPI, AWS Amplify, AWS CloudFormation, AWS Lambda, GraphQL, AWS Cognito.**
- **Online Judge:** Built an internal tools for students involved in the curriculum's bootcamp to evaluate student's code. Involved building a highly scalable judge server using AWS Lambdas, to submit hundreds multiple concurrent submissions of user code, in a sandboxed environment. **Technologies used: Python, Flask, AWS Lambda**

Software Contractor, WECORP,

London, United Kingdom - May 2020 - July 2020

- **Autonomous Drone Management System:** Involved in building an internal facing autonomous drone management system for drone operators at Wecorp, that allowed them to view the status of autonomous drones, schedule drones to fly at certain times, and take manual control of drones when necessary.

Undergraduate Researcher,

Kings College London - 2015

- Worked on using **Artificial Intelligence Planning Models (PDDL+)** to improve **urban traffic control** in sponsorship with **Transport for London (TFL)**
- **Built a virtual model of the various road and traffic signal layouts in operation** throughout the city of London in a proprietary computer format
- Worked on building parts of the planning system to interpret these models and **intelligently deciding how to switch signals so as to reduce overall traffic congestion**
- **Won Kings Undergraduate Research Award**

OTHER TECHNICAL EXPERIENCE

- **Heap Memory Profiler for C++ Programs:** A lightweight program that helps profile and optimize C++ memory allocations using object pools. Bundled with a GUI to help visualize where memory leaks occur, where the program may cause internal fragmentation in the operating system, and where the program is optimizing memory allocations. **Technologies used: C++, Python**
- **Vaccine Transport AI System:** A high level AI Planning system that intelligently modulates vaccine temperatures while they are en route to delivery. It takes into account environmental factors, battery power remaining and distance to destination among other factors. **Technologies used: Planning Domain Definition Language +**
- **Motion Based Computer Mouse:** A program and corresponding hardware for a motion based computer mouse for people with arthritis, carpal tunnel etc. that makes it easier to use without hand movements. Winner of the 2010 Intel Indian National Science Fair.

EDUCATION

Kings College London — Masters in Science, Computer Science, 2019

International Baccalaureate (IB) Diploma, 41 / 45 — 2014, Dhirubhai Ambani International School, Mumbai India

PROGRAMMING LANGUAGES

- **Python:** Intermediate
- **C++:** Intermediate
- **Javascript:** Intermediate

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- **Rust:** Beginner
- **Elixir:** Beginner

LANGUAGES

- **ENGLISH:** Primary Language, Fluent
- **HINDI:** Fluent