

RUDRAKSH MONGA

+1 (647) 675-9848 | [linkedin.com/in/rudraksh-monga](https://www.linkedin.com/in/rudraksh-monga) | github.com/whyismynamerudy | whyismynamerudy.tech

EDUCATION

University of Toronto

Sep 2021 – May 2025

BSc. in Computer Science; Minor: Maths, Stats; CGPA: 3.94/4.00

Toronto, Ontario, CA

Relevant Courses: Data Structures, Software Tools and Systems Programming, Software Design, Linear Algebra

TECHNICAL EXPERIENCE

AI/NLP Engineer

Sep 2023 – Present

Urban Data Center, University of Toronto

Toronto, Ontario, CA

- Leveraged 86,000+ training examples for **transfer learning** on large language models (LLMs) to develop domain-specific Named Entity Recognition models for social organizations.

Co-Founder, CTO, Lead Programmer

Apr 2023 – Present

1Kit

Toronto, Ontario, CA

- Established an innovative **ed-tech startup**, and conceptualized, developed, and deployed an MVP with **novel features** addressing information management and productivity challenges for students and researchers.
- Spearheaded the design of a scalable infrastructure on AWS and created and optimized schema for an AWS RDS-hosted database, **minimizing AWS costs by 29.17%**.
- Employed **agile scrum sprints** to craft a browser extension, RESTful API, and user-facing website, using AWS Code Pipeline for **continuous delivery**.

Full-Stack Developer

Jan 2023 – Aug 2023

Hack the 6ix

Toronto, Ontario, CA

- Developed reusable, stylized components in React and TypeScript for the hackathon's landing page, driving **3000+ unique views** and **1200+ hacker applications**.
- Utilized the Notion API to fetch and display hacker information, schedule, and resources to **250+ hackers**.

Software Engineering Intern

Jul 2022 – Aug 2022

EnrichAI

Gurgaon, Haryana, IN

- Developed an automated testing suite consisting of **unit, integration, end-to-end, and functional tests** for an IoT waste collection solution.
- Automated **>97% of tests** using WebdriverIO and Selenium, reducing testing time by **99.1%** (from 10 minutes to 32 seconds).
- Facilitated identification of failed tests and increased **ease of test analysis** by automatically generating **color-coded reports** with screenshots and timestamps.

PROJECTS

PortAudio | Open-Source | C/C++

github.com/PortAudio/portaudio

- Contributed to an **open source C language audio library** by developing conversion functions between custom data types to facilitate communication with external audio software.
- Implemented advanced bit manipulation techniques to introduce dither into digital audio signals, significantly **reducing distortion** when reducing bit depth.

ShiftyTech | Python, TensorFlow, OpenCV, Milvus

github.com/whyismynamerudy/shiftyTech

- Hack the North 2023: Best Hack Built on Replit** winner.
- Mapped 21 body poses** to keywords and macros in Python, allowing developers to combine poses to write executable programs on Replit.
- Applied pose estimation models and kNNs for pose **classification** using a vector database of labeled poses.

Spotify MultiSelect | TypeScript, React.js, Next.js, TailwindCSS

github.com/whyismynamerudy/spotify-multiselect

- Engineered a full stack solution that lets users add multiple tracks to a playlist at once, addressing a gap in the current Spotify ecosystem.
- Achieved a **67.11%** reduction in track addition time, yielding an average time-saving of **4.77 seconds per track** by utilizing the Spotify API for batch addition of tracks.

TECHNICAL SKILLS

Languages: Python, C/C++, C#, Java, JavaScript, TypeScript, SQL, Assembly, Shell Script, HTML/CSS, SCSS

ML/AI: TensorFlow, PyTorch, scikit-learn, Keras, OpenCV, NumPy, SciPy, Pandas, Matplotlib, Seaborn

Frameworks: React.js, Next.js, React Native, Svelte.js, Node.js, Express.js, Flask, Django, TailwindCSS

Utilities: Git/GitHub, Amazon Web Services (AWS), Vertex AI (GCP), CI/CD, MongoDB, MySQL, PostgreSQL