

RUDRAKSH MONGA

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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

EXPERIENCE

Co-Founder, CTO, Lead Programmer

Apr. 2023 – Present

1Kit

Toronto, Ontario, CA

- Established an ed-tech startup focused on addressing challenges students and researchers face while accessing and managing information on the web.
- Conceptualized, developed, and deployed a dynamic and responsive MVP with **novel features** extracted from interviews with potential users.
- Spearheaded the design of a scalable infrastructure on AWS with optimized data storage, laying foundation for future data analytics capabilities and **minimizing AWS costs by 29.17%**.
- Iterated pitch decks, business plans, and cash flow projections, with final versions assessed by over **300 judges** worldwide, resulting in our selection as finalists in a startup incubator.

Full-Stack Developer

Jan. 2023 – Present

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 usability 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

LipNet | Python, TensorFlow, OpenCV, Matplotlib | github.com/whyismynamerudy/LipNet

- Developed a deep learning model using TensorFlow for video-based speech recognition, achieving **92.3% accurate prediction** of spoken words in videos by combining Conv3D and Bi-LSTM layers.
- Implemented a **data transformation pipeline** to preprocess video files, extract frames, convert them to grayscale, and normalize the data, ensuring optimal performance during training and testing phases.

SoundSpace | React Native, Python, Flask, GraphQL | github.com/whyismynamerudy/soundspace

- Developed a cross-platform mobile application help University of Toronto students find quiet study spots around campus.
- Utilized **audio analysis** techniques to measure average audio amplitude, volume spikes, and reverberations in the surroundings, enabling users to discover optimal study environments.

Spotify MultiSelect | TypeScript, React.js, Next.js | github.com/whyismynamerudy/spotify-multiselect

- Engineered a solution that lets users add multiple tracks to a playlist at once, addressing a gap in the current Spotify application.
- 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, HTML/CSS, SCSS

Frameworks: Tensorflow, scikit-learn, OpenCV, React.js, Svelte.js, Node.js, Express.js, Flask, Django, GraphQL

Developer Tools: Git, AWS, Webpack