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

TECHNICAL EXPERIENCE

Co-Founder, CTO, Lead Programmer Apr 2023 – Present
1Kit *Toronto, Ontario, CA*
- Established an innovative **ed-tech startup** focused on addressing challenges students and researchers face while accessing and managing information on the internet.
- Conceptualized, developed, and deployed a dynamic and responsive MVP with **novel features** extracted from interviews with potential users, utilizing **agile scrum sprints** for timely delivery.
- 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 – 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

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.

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 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), CI/CD, JDBC, Webpack, MongoDB, MySQL, PostgreSQL, CMake