RUDRAKSH MONGA

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EDUCATION

University of Toronto   Sep 2021 – May 2026
BSc. in Computer Science; Minor: Maths, Stats; CGPA: 3.91/4.00   *Toronto, Ontario, CA*
Relevant Courses: ML/AI, Data Structures, Algorithms, Statistics, Linear Algebra

TECHNICAL EXPERIENCE

Software Engineering Intern   May 2024 – Present
Intact Insurance   *Toronto, Ontario, CA*
- Engineered a dependency visualization system in Clojure and Angular, mapping **5.1k+ microservice dependencies**, resulting in **9% faster developer onboarding** and improved architectural decision-making.
- Automated OpenShift cluster management through Python/Jenkins scripts, **reducing system downtime by 12%** and **reclaiming 1TB+ of storage** through pod monitoring and image cleanup.
- Accelerated monthly release cycle by engineering an automated GitHub release tagging system, **reducing process time by 97%** using Python, Jenkins, and GitHub CD.

Machine Learning Researcher   May 2024 – Nov 2024
Computational Social Sciences Lab, University of Toronto   *Toronto, Ontario, CA*
- Developed a novel joint textual and structural logical query answering framework over knowledge graphs that achieved state-of-the-art performance, **outperforming existing methods by up to 8%** by incorporating textual context through large language models (LLMs).

Machine Learning Engineer   Sep 2023 – Apr 2024
Urban Data Center, University of Toronto   *Toronto, Ontario, CA*
- Engineered an **ontology-guided system** for extracting Knowledge Graph (KG) entities from unstructured text, leveraging Large Language Models (LLMs) to ensure adherence to specific domain ontologies.
- Developed approaches for processing multi-tagged phrases containing information for multiple KG entities, implementing label-specific models and span classifiers to optimize accuracy.
- Implemented **data transformation pipelines** converting character-level annotations to sentence-level BIO-encoded tokens, enabling fine-tuning of BERT-based models for entity recognition using PyTorch.

Full Stack Software Engineer   Sep 2023 – Dec 2023
UNICEF Canada   *Toronto, Ontario, CA*
- Developed an **open-source tool** to clone Apache Superset dashboards and a **novel cloud-based version control system** to facilitate duplication of Superset dashboards across staging and production environments using **Python, Firebase, and JavaScript**.
- Eliminated dashboard cloning redundancy, **reducing time taken** to clone and rebuild dashboards across Superset instances **by 93.6%** (from 15 minutes to 57 seconds) across **100+ UNICEF offices** worldwide.

PROJECTS

Claude Folder Upload | *JavaScript, HTML, CSS*   chromewebstore.google.com/detail/claude-folder-upload-help
- Developed a Chrome extension enabling structured folder uploads to Claude AI, preserving project hierarchies and featuring regex filtering, reaching **270+ users** with a **featured ProductHunt launch**.

Voyager: Job Finder | *Python, NextJS, FastAPI, Celery, Redis, Gemini*   voyager.whyismynamerudy.tech/
- Engineered a distributed internship tracking platform using **FastAPI**, **Celery**, **Redis**, and **PostgreSQL** to automatically scrape job postings and notify users of new opportunities.

ShiftyTech | *Python, TensorFlow, OpenCV, Milvus*   github.com/whyismynamerudy/shiftyTech
- **[Hack the North 2023 Winner]** Developed a platform that allows developers to **code using body poses** using pose estimation models and nearest-neighbor algorithms.

Magic UI: Open Source Contribution | *TypeScript, React*   github.com/magicuidesign/magicui
- Developed and contributed two animated UI components built with React, Typescript, TailwindCSS, and Framer Motion, now utilized by **over 6000 users**.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C, SQL, Bash Script, HTML/CSS
ML/AI: PyTorch, HuggingFace, scikit-learn, Keras, OpenCV, NumPy, SciPy, Pandas, Matplotlib, Seaborn
Frameworks: React, NextJS, Node.js, Express.js, Flask, FastAPI, TailwindCSS
Utilities: Git/GitHub, Amazon Web Services (AWS), Google Cloud Platform (GCP), CI/CD, MongoDB, PostgreSQL