LIKHITHA KOPPULA

Toronto, ON
+1(416) 768-6446 ◇ l2koppul@uwaterloo.ca ◇ linkedin.com/in/likhitha-koppula

OBJECTIVE

Systems Design Engineering student seeking a research opportunity

EDUCATION

BASc, Systems Engineering, University of Waterloo — Expected Graduation: 2029
Coursework: SolidWorks, Digital Computation (C++ and Software Testing), UI/UX

SKILLS

Programming Languages SQL, Python, Java, JavaScript, HTML/CSS, C++
Tools GCP, Apache Airflow, Atlassian, Oracle, Keras, TensorFlow, scikit-learn, Pandas, Git, React

EXPERIENCE

Data Engineer - Co-op — Jan 2025 - Apr 2025
Definity (Economical Insurance) — *Toronto*

- Automating pipelines to deliver Oracle query outputs through Google Cloud Platform and Apache Airflow DAGs
- Developing and deploying software solutions using Python, SQL, and Java to support data engineering projects
- Collaborating with cross-functional teams using Jira/Confluence to manage tasks and track project progress

Curriculum Development Intern — Dec 2022 - Jan 2024
The Coding Foundation — *Remote*

- Worked with the team to develop user-friendly and engaging curriculum of programming languages. Used programming languages; Python, Java, HTML/ CSS

Front-end Development Intern — Feb 2023 - Sep 2023
building-U — *Remote*

- Worked independently and alongside the director of the coding team to improve or add new features to the company's website. Used programming languages and tools**:** Java, HTML/CSS, Git

PROJECTS

Methodology for Pollutant Mean Prediction. This paper presents a machine learning approach utilizing Recurrent Neural Networks and Long Short-Term Memory implemented with **Keras + TensorFlow** to predict air pollutant levels over extended periods. The study incorporates multiple prediction intervals, providing insights into the models' performance under different contexts. View Here

Prometheus Lab of McGill University. Researched AI architectures that combine Symbolic Reasoning with Machine Learning, identifying key research groups under Prof. Joseph Vybihal

Microsoft Microbit. Designed and developed an interactive, sensor-driven game using a Microbit, piezo buzzer and MakeCode editor (**Python**)

LEADERSHIP/EXTRA-CURRICULAR

Finance Director — Jul 2021 - Apr 2024
Human Nature Project Ontario **NPO** — *Hybrid*

- Led a team of 4+ to secure over $4,000 in grants and sponsorships, expanding our budget for projects
- Managed various tasks; applying for grants, planning and ordering merchandise, maintaining partnerships etc.

Markham Robotics: Hardware Team — Sep 2023 - Apr 2024
FIRST Robotics — *In-person*

- Collaborated to design and assemble the robot's structural framework using **OnShape**, ensuring stability and functionality