ISHIKA MITTAL

Toronto, Ontario, Canada

📞 437-985-5810 ✉ ishika.mittal@mail.utoronto.ca 🔗 linkedin.com/in/ishika-mittal1202 ⚪ github.com/ishika1202

EDUCATION

University of Toronto **Sep 2021 – May 2025**
Bachelor of Applied Science: ***Computer Engineering**, Minors: -* ***AI*** *and* ***Business*** *Toronto, Canada*
Awards: **Standford Hackathon Winner, Cansbridge fellowship**, Granted to the top 15 young Canadian students, accompanied by a scholarship and the invaluable chance to undertake internships in Asia.

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Computer Organization
- Operating System
- Deep Learning
- Artificial Intelligence
- Computer Architecture
- Computer Networks
- Accounting and Finance

EXPERIENCE

NOKIA - SDN and Automation Engineer Intern **May 2023 - Present**
- Creating an automation platform through API implementation using **FastAPI, Golang API**, **Bootstrap**, **Docker**, **HTML**, and **Python**, resulting in a remarkable **95%** efficiency gain
- Reduced infrastructure preparation time from **weeks** to **15 minutes**, enhancing the customer experience and enabling quicker product demonstrations
- Integrated **ESLint** for rapid issue detection and code quality improvement, reducing review times by **60%**

Aiko mail Mobile App - Software Engineer Intern, Team Leader **Sep 2022 - Dec 2022**
- Developed an Android-based application using **Java** on Android Studio and setting up a basic email engine by gathering data from different email servers
- Applied **SDLC** with respect to mobile application to develop **MVP** (Minimum Viable Product) for an email application on mobile

Research Position – Under Prof. Xilin Liu at University of Toronto **April 2022 - Sep 2022**
- Developed a tool that can track animal behaviors in real-time for **closed-loop neuromodulation** and ran on **Raspberry Pi4**.
- Implemented training dataset using **DeepcutLab**, **Any-maze software** aiming to deliver in-demand stimulation based on the real-time status of the animals, thus increasing clinical efficiency by **15%**

University of Toronto Engineering Academy - Programming Mentor **May 2022 - Sep 2022**
- Conducted lectures for more than **200** engineering students in programming languages **C** and **Python**
- Carried out mentorship activities to make programming concepts easy and interactive

PROJECTS

Random Route Generator web app │ *Google Maps API, CSS, React, Google Cloud, Java Script* **Oct 2022**
- Led a cross-functional team of four during the Newhacks Hackathon, to develop a dynamic web application, implemented a feature using the **Google Maps API**, enabling the generation of new and engaging walking routes based on the user's location and preferences, enhancing the overall user experience.

Artificial intelligence for Reversi Game │ *C programming, Iteration and Minimax algorithm* **March 2022**
- Developed reversi board game for single and two players modes that can predict 15 moves deeper in under **1** second
- Ranked **13th** place on the course leaderboard by making efficient and successful code among more than 350 students

Computer Vision Developer │ *University of Toronto Robotics Association* **Oct 2021 - Oct 2022**
- Worked with a team of 15 members on determining and implementing an optimal **CV model** for the detection, classification, and tracking of tasks reflecting the ability to work in a fast-paced environment and thrive working with others
- Performed Data labeling for **3000** images for a CV to recognize common roadway items and lanes

Geographic Information System (GIS) Software │ *C++, STL, Open Street Map API* **January 2023**
- Developing Map software in a team by utilizing **APIs**:- Open Street Map and Streets database to fetch data and organizing it into appropriate data structures for best performance, using **C++, STL**
- Enhanced search efficiency by **80%** through the implementation of algorithms and **multithreading** techniques

HATS Calendar │ *Python, Pandas, PySimpleGUI* **January 2023**
- Worked in a team of 4 to build a calendar program that organizes personalized timetables for students using **Python** with all the tasks, and accompanying information stored in **CSV files**, using the built-in **CSV module**
- Sorted information using the Pandas library in Python with **PySimpleGUI** used for the **User Interface (UI)**

TECHNICAL SKILLS

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, SQL, React, Golang, FastAPI, Matlab
Developer Tools: AWS, Google Cloud Platform, OpenStack, Docker, ESLint, Android Studio, VS code
Technologies/Frameworks: Linux, GitHub, DeepCut lab, Fusion 360