Kavya Kadi

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Education

University of Toronto **Expected Graduation: May 2024**

BASc in Computer Engineering, Minor in Artificial Intelligence and Engineering Business *Toronto, ON, Canada*

Courses: Algorithms and Data Structures, Operating Systems, Software Engineering, Computer Networks, Systems Design, Introduction to Databases, Fundamentals of Artificial Intelligence and Machine Learning

Technical Skills

Programming Languages: Python, C++, C, Javascript, Java, HTML/CSS, SQL, Bash, MATLAB, Verilog
Technologies: Git, Linux, Windows, GCP, AWS, Docker, React, Node.js, MySQL, Power BI, Figma, Microsoft Office

Technical Experience

Full Stack Developer **Toronto, ON, Canada**

Lifion by ADP *June 2023 – August 2023*

- Automated Lifion Pi payroll engine architecture, facilitating rapid tax jurisdiction identification and synchronization

Software Engineer **Markham, ON, Canada**

Advanced Micro Devices (AMD) *May 2022 – April 2023*

- Designed and executed **Python-based automated test scripts** for analyzing 70+ power firmware features of next-gen Accelerated Processing Unit (APU) chip during **Silicon bring-up**
- Developed ML model using **Python** and **Apache Airflow** to analyze and predict data centre APU chip performance
- Implemented a robust **CI/CD pipeline** to automate regression testing, ensuring secure enablement of firmware features

Data Engineering Intern **Toronto, ON, Canada**

Content Turbine *May 2021 – May 2022*

- Enabled 15+ clients to accelerate data transformations by implementing a data integration engine into infrastructure
- Created comprehensive technical documentation outlining how to **implement streaming SQL database** (Materialize)
- Improved clients' data processing time by **simplifying ELT pipeline** using Airbyte's connectors to efficiently mine and compile client and marketing data

Machine Learning Intern **Toronto, ON, Canada**

FLAP Canada *September 2020 – May 2021*

- Developed **AI image recognition software** to increase building-bird collision risk detection speed by 47%
- Trained a CNN using **PyTorch** to perform feature recognition and risk classification for 1000+ user-uploaded images

Leadership Experience

Vice President of Industry Relations

University of Toronto Machine Intelligence Team

- Fostered partnerships with industry leaders, secured sponsorships and hosted educational ML development initiatives
- Led Industry Relations team in orchestrating a computer vision workshop, key speaker series panel and hackathon

Director of Events

Google Developer Student Club - UTSG

- Organized and executed technical workshops on Cloud Computing, Flutter and Machine Learning for 200+ participants
- Cultivated strategic collaborations through outreach to technical experts for sponsorship and event initiatives

Director of Internal Engagements

University of Toronto Engineering Student Consulting Association

- Coordinated *Ace the Case* - Case Study Competition with Kearney Management Consulting Firm for 150+ attendees
- Partnered with renowned consulting firms like Hatch, The HIDI Group and Deloitte to host multiple speaker series

Projects

OMR | *Python, PyTorch, pandas, NumPy*

- Automated process of computationally reading musical notation to increase transcription speed by 52% using 2 CNNs
- Leveraged **Random Forest Algorithm** to improve model's performance of note classification prediction

Voyager Mapper | *C++, Git, GTK*

- Developed a **C++** based Geographic Information System (GIS) program with map visualization and path finding