ANUSHA SHEKHAR

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EDUCATION Computer Engineering, University of Toronto; Expected Graduation: May 2024

COURSES Algorithms & Data Structures, Principles of Software Engineering, Computer Organization, Probability, Engineering Economic Analysis & Entrepreneurship, Computer Networks

SKILLS Q, KDB, Python, LLMs, C/C++, SQL, Angular, JavaScript, CSS, HTML, Git, MATLAB, Latex, OpenCV, UNIX-based envs

EXPERIENCE

Data Engineer | RBC Amplify | Toronto, Ontario | May 2023 – Present

- Conducted senior stakeholder interviews to identify pain points & determined business value of our product.
- Queried internal databases, KDB databases, and news APIs using MSSQL, Q, and Python libraries.
- Used generative AI & LLMs to provide coverage people real-time in-depth insights of market moving news.
- Filed a provisional patent for our solution, ATLAS (Automated Trade-Leveraged Analytics System).

Systems Engineer | PCK Intellectual Property | Toronto, Ontario | May 2022 – April 2023

- Automated workflows for patent applications using SQL, HTML, JS, & an internal software system (Patrix).
- Implemented a KPI System to improve productivity using Microsoft Power Automate and Power BI.
- Maintained and optimized the database containing all case and client information using SQL.

Software Engineering Intern | 7Square | Montreal, Quebec | May 2020 – August 2020

- Implemented a linear regression model for automated property valuation.
- Developed the website search functionality and API for use by real estate professionals.

PROJECTS

Game Developer | Nodal Analysis – Color Connect Game | April 2021

- Developed a game using C++, assembly language for ARM Processor and DE1-SoC board.
- Players uses I/O devices to connect coloured dots in randomized grids of varying difficulty levels.

Software Developer & Communication Lead | Inclusive & Accessible GIS | January 2021 – April 2021

- Developed a GIS to find optimal travel routes & used algorithms to improve the time complexity of the program.
- Added accessibility features, including those for colour-blind users and users in wheelchairs.
- Handled all outward communication, and developed and managed all team presentations.

EXTRA CURRICULAR

Engineers Without Borders, University of Toronto Chapter

VP External | May 2023 - Present

- Developed & maintained relations with EWB Canada, Professional Chapter, & affiliated chapters.
- Leveraged professional networks to get financial support and sponsorships for internal projects.
- Set up a mentorship program between EWB UofT students and the EWB professional chapter.

Cyber Ethics and Digital Rights Portfolio Lead | May 2022 – April 2023

- Planned and oversaw projects relating to cyber security and cyber news, and a hackathon.
- Organized events that encourage students to actively engage in prevalent socio-technical topics.

Researcher and Front-End Developer | November 2020 – June 2021

- Researched how common digital platforms collect, use, & share data, & how to increase digital privacy.
- Developed a website to share this information (target audience - 10,000 individuals in Toronto)

Flight Operations Liaison & Software Developer | Unmanned Aerial Systems, University of Toronto Aerospace Team | October 2020 – March 2021

- Co-ordinated with cross-functional teams to develop competition strategy, compliance, & risk analysis.
- Developed a shape recognition algorithm using OpenCV for a drone to deliver medical supplies.

AWARDS

- People's Choice Award, UofT Hatchery Accelerator Weekend (Hackathon) – 2020
- Environmental Services Award, Lower Canada College – 2018
- Duke of Edinburgh Silver and Gold Awards – 2017 and 2018 respectively