

ANKUSH MADHARHA

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TECHNICAL SKILLS

Languages: Python, Java, C, HTML, CSS, JavaScript, MySQL, R, MATLAB

Technologies: JavaFX, JUnit, MongoDB, Express, React, Node.js, JQuery, Heroku, GitHub Actions

Developer Tools: Git, Linux, Docker, VS Code, Eclipse

EDUCATION

University of Guelph

Bachelor of Computing in Computer Science (Co-op), Minor in Mathematics

- 4.0 GPA

Sep 2021 - May 2026

Guelph, Ontario

WORK EXPERIENCE

Data Analyst

ATS Corporation

May 2023 - Dec 2023

Cambridge, Ontario

- Accomplished a comprehensive aggregation of customer segmentation data as measured by a **Python**-driven approach, by utilizing **pandas** to collect and process data from Excel
- Leveraged **Python** and the Edgar **API** to gather crucial financial information about our customers, enhancing our customer segmentation and providing deeper insights into their financial health and positioning
- Enhanced the efficiency of main business processes by participating in a Kaizen event, and documented the improvements with visual representations using **Visio**
- Diagnosed the primary causes of poor data quality in **Salesforce**, and developed a dashboard to spotlight opportunities that deviate from reporting standards, enabling other business units to swiftly address discrepancies
- Streamlined the MBR process by consolidating data from **Salesforce** into user-friendly **Excel** reports, enabling Key Account Service Leaders to easily comprehend the funnel and facilitating proactive communication to rectify discrepancies

PROJECTS

Portfolio Website | HTML, CSS, JavaScript, Git

Sep 2023 - Oct 2023

- Developed a responsive portfolio website utilizing **HTML**, **CSS**, and **JavaScript**, emphasizing a seamless UI
- Incorporated comprehensive pages, offering insights into personal hobbies and passions
- Showcased a collection of personal projects alongside valuable co-op work term reports to show growth and accomplishments

Molecule Visualizer | Python, C, HTML, CSS, JavaScript, MySQL, SWIG, SVG, Heroku, Git

Apr 2023 - May 2023

- Developed a comprehensive library that supports the creation and complex manipulation of molecular structures in **C**
- Integrated the back-end molecule library with front-end visualization using a **Python** interface and **SWIG**
- Leveraged **SQL** to curate a database of user-contributed molecules, optimizing storage and retrieval processes
- Designed an intuitive front-end interface using **HTML**, **CSS**, and **JavaScript** to enhance user experience

Daily Technology News | Python, APIs, GitHub Actions, Git

Aug 2022 - Aug 2023

- Developed a **Python** Twitter bot to tweet technology news, harnessing the automation capabilities of **GitHub Actions**
- Utilized the Reddit **API** to capture real-time trending tech news and paired it with the Twitter **API**
- Infused the Twitter bot with the OpenAI **API** to auto-generate article summaries, driving a remarkable **50%** surge in users

Dash | Java, JavaFX, JUnit, GUI, OOP, Git

Aug 2022 - Apr 2023

- Led the creation of 'Dash', a vibrant game crafted in **Java** with an intuitive interface via **JavaFX**
- Employed rigorous **object-oriented programming** and strategic **design patterns** to enhance game efficiency
- Ensured game excellence and reliability through thorough **JUnit** testing protocols, elevating player satisfaction
- Simplified the game distribution, broadening accessibility and amplifying user reach