

# ANKUSH MADHARHA

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## EDUCATION

### University of Guelph

B.Comp. in Computer Science, Minor in Mathematics

Guelph, Ontario

Expected Graduation, May 2026

- **GPA:** 3.5 GPA
- **Related Coursework:** Data Structures, Analysis & Design of Computer Algorithms, Object Oriented Programming, Software System Development & Integration

## WORK EXPERIENCE

### ATS Corporation

Data Analyst

Cambridge, Ontario

May 2023 - Dec 2023

- Applied advanced Python and SQL skills within the Databricks platform, streamlining and enhancing data cleaning and aggregation tasks, which led to more efficient data management and improved pipeline functionality
- Harnesses the capabilities of Tableau and Tableau Prep to transform and present complex data sets, significantly improving stakeholder understanding and decision-making processes across various business domains
- Utilized Salesforce for comprehensive data extraction and performed in-depth ad hoc analysis, providing critical insights and supporting diverse business needs throughout the organization
- Streamlined the monthly business reporting process, facilitating efficient tracking of booked and funnel opportunities, and played a key role in the accurate calculation of financial bonuses for team members, thereby contributing to enhanced business performance and employee motivation

## PROJECTS

### Portfolio Website | HTML, CSS, JavaScript, Git

June 2023 - September 2023

- Crafted a responsive and user-friendly portfolio website using HTML, CSS, and JavaScript, focusing on an intuitive UI
- Featured a variety of pages showcasing personal interests and passions to provide a comprehensive view of personal endeavors
- Presented a diverse range of personal projects and detailed co-op work term reports, highlighting a journey of growth and achievements

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

January 2023 - May 2023

- Engineered an extensive C-based library for constructing and manipulating molecular structures, enabling advanced visualization and interaction
- Seamlessly integrated a C-based back-end with a dynamic web interface using Python, SWIG, and front-end technologies
- Implemented a robust SQL database for efficient management and access to a growing collection of user-contributed molecular structures
- Devised an engaging and user-friendly web interface leveraging HTML, CSS, and JavaScript, elevating the overall user interaction and experience

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

August 2022 - September 2022

- Designed and executed a Python-based Twitter bot, automating tech news updates using GitHub Actions
- Incorporated Reddit API for sourcing trending technology news, complemented with Twitter API integration for seamless social media updates
- Innovatively combined the bot with OpenAI API to auto-generate concise news summaries, resulting in a substantial increase in user engagement

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

May 2020 - June 2020

- Developed 'Dash', a Java-based game featuring an engaging JavaFX GUI, appealing to a wide user base
- Applied advanced object-oriented programming principles and design patterns to maximize game performance and efficiency
- Conducted comprehensive JUnit testing to ensure game reliability and smooth gameplay, significantly improving player experience

## TECHNICAL SKILLS

**Programming:** Python, Java, C, HTML/CSS, JavaScript, MongoDB, Express, React.js, Node.js, MySQL, R, MATLAB

**Developer Tools:** Git, Linux, Docker, VS Code, Eclipse, IntelliJ, Heroku, GitHub Actions, Agile