

# Jackson Timewell

647-988-5752 | [timewellj@mcmaster.ca](mailto:timewellj@mcmaster.ca) | [LinkedIn](#) | [GitHub](#) | [Website](#)

## Skills

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<b>Programming Languages:</b>	Python, Java, JavaScript, TypeScript, C, C++, PHP, R
<b>Web Development:</b>	HTML, CSS, React, NodeJS, ExpressJS
<b>Database:</b>	SQL, MySQL, Pandas, DBEaver
<b>Software and Tools:</b>	Git, Postman, Jira, Confluence, Excel, Sheets, UML
<b>Soft Skills:</b>	Leadership, Communication, Time Management, Customer Service, Agile Development

## Education

### McMaster University

Sep. 2021 – May 2025

*Bachelor of Mathematics & Computer Science (Honours)*

- **CGPA:** 3.7
- **Coursework:** Software Development, Machine Learning, Data Structures & Algorithms, Object-Oriented Programming, Databases, User Interface Design
- **Awards:** Dean's List 2021-2022, Dean's List 2022-2023, Dean's List 2023-2024, Baldwin Music Award

## Experience

### Consultant Developer Intern

May 2024 – Aug. 2024

*Guidewire Software*

*Mississauga, ON*

- Primary developer on internal IDE plugin in Java, which automates multiple cloud error remediation processes
- Plugin creates quick fixes to automatically read, edit, and delete noncompliant code over multiple files
- Completed 20 quick fixes, with the most valuable fix saving up to 8 hours of work per customer project
- Wrote documentation using Confluence for ease of use and maintainability for future developers
- Participated in an agile, test-driven environment using scrum practices and utilizing Jira for project management

### Data Entry/File Clerk

May 2023 – Sep. 2023

*FHS Health Screening and Professionalism Office*

*Hamilton, ON*

- Independently took initiative to design and build a new website using McMaster systems featuring information pages for FHS programs, gathering requirements and taking in feedback for an iterative approach in development
- Worked in a team managing documentation of and communicating with over 1000 students from dozens of programs throughout the faculty by verifying and recording data in SQL databases and Excel spreadsheets

## Projects

### Co-operators Problem-Solving Competition Finalist (Python, R, [Git](#))

Feb. 2025

- Developed a Poisson Regression model to predict total losses on over 50,000 insurers and find unprofitable risks
- Researched, developed and presented Risk Sharing Pool solution to a panel of Senior Actuaries
- Achieved 2nd place in a competition of over 30 teams with successes in accuracy, teamwork and communication

### ML Sentiment Analysis Project (Python, Pandas, Matplotlib, scikit-learn, [Git](#))

Dec. 2024

- Created 3 machine learning models to determine sentiment of labeled sentences as positive or negative
- Preprocessed using BoW and TF-IDF on a dataset of 3,000 sentences from reviews on Amazon, IMDb, and Yelp
- Utilized lemmatization, vectorization and cross-validation resulting in a model with 94% prediction accuracy

### GSC Code Jam (TypeScript, React, ExpressJS, NodeJS, Postman, [Git](#))

Jun. 2024

- Created web quiz app in 1 day which reads a list of questions in JSON format and creates a custom quiz based on user selected category and difficulty
- Developed REST API to communicate between front and back end, with a focus on security and error handling