

# Aaron Lou

<https://www.linkedin.com/in/aaron-lou-codes/>

Toronto, ON

437-345-3341

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## JR. SOFTWARE DEVELOPER

JAVA PROGRAMMING | SQL | AGILE DEVELOPMENT

### SUMMARY OF QUALIFICATIONS

- Currently pursuing an Advanced Diploma in Software Engineering with a focus on artificial intelligence.
- Experience with SQL, PL/SQL, NoSQL and RDBMS, including Oracle, MySQL, IBM DB2 and MongoDB.
- Proficient in C#/.NET, Java, Python and JavaScript.
- Familiarity with HTML5, CSS3, Figma, Bootstrap, Typescript, NodeJS, EJS, AJAX, Angular, Flask, JSON serialization and the MVC framework.
- Knowledge of data structures, algorithms, object-oriented design, SDLC and agile methodologies.
- Proficiency in technical writing, and project documentation.
- Familiarity with version control/code management tools such as GIT and GitHub.
- Knowledge of REST APIs and web services.

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### EDUCATION

#### Software Engineering - Artificial Intelligence Co-op

Centennial College, Toronto, ON

Sept. 2021 - Present

*Expected graduation: December 2024*

- Currently maintaining a GPA of 4.34/4.5

- *Relevant courses:*

Supervised Learning	Advanced Database Concepts	Data Structures and Algorithms
Software System Design	Web Application Development	Software Testing & Quality

#### Bachelor of Business Administration (Transferred Program)

University of Winnipeg, Winnipeg, MB

Sept. 2019 - Apr. 2021

- Obtained a GPA of 4.08/4.5 (A) before transferring to Centennial College
- Competed in JDC West 2021 business competition as a Marketing Delegate
- Marketing coordinator at the University of Winnipeg Accounting Students' Association

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### PROJECT WORK

#### Python Data Transformer and ETL for Enterprise Level Data Migration

Jan. 2023 - Apr. 2023

- Collaborated with non-technical stakeholders to understand their requirements and effectively communicated technical concepts to ensure alignment.
- Analyzed the business problem and proposed a cost-saving solution, resulting in projected savings of over \$20,000 for the organization.
- Developed a Python-based data transformation program capable of efficient processing and converting more than 60,000 records of high-sensitivity data into client-required formats.
- Streamlined the data migration process by developing ETL jobs using IBM DataStage.
- Documented the project thoroughly and facilitated knowledge to the team.

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## CERTIFICATIONS

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- |   |           |
|---|-----------|
| <b>CompTIA Data+ (DA0-001)</b>  | Mar. 2023 |
| <ul style="list-style-type: none"><li>• Certificate of completion of the course <i>CompTIA Data+ (DA0-001)</i></li><li>• Issued by New Horizons</li></ul> |           |
| <b>Agile for Product Owners</b>   | Mar. 2023 |
| <ul style="list-style-type: none"><li>• Certificate of completion of the course <i>Agile for Product Owners</i></li><li>• Issued by Cprime</li></ul>      |           |

## EXPERIENCE

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|--|-----------------------|
| <b>Jr. Software Developer (Full-Time/Co-op)</b>  | Jan. 2023 – Apr. 2023 |
| Treasury Board Secretariat, Cluster Application Branch, Business Intelligence Data Analytics<br>Toronto, ON  |                       |
| <ul style="list-style-type: none"><li>• Collaborated closely with a team of 6 developers and 2 leads to deliver high-quality software and data solutions for data analysts.</li><li>• Developed a Python-based program and ETL jobs to efficiently transform and migrate over 60,000 records of data, optimizing data integrity and accuracy (see section Project Work).</li><li>• Ensured the smooth execution of monthly end-to-end data refresh processes, maintaining up-to-date and reliable data for business intelligence purposes.</li><li>• Investigated and resolved issues and bugs promptly, employing analytical skills to identify root causes and implementing effective solutions.</li></ul> |                       |
| <b>Customer Representative (Food and Beverages) (Part-Time)</b>  | May. 2022 – Dec. 2022 |
| Noon Moment, Toronto, ON   |                       |
| <ul style="list-style-type: none"><li>• Offered customized menu recommendations to customers, serving an average of 200 people daily.</li><li>• Excelled in a fast-paced work environment and streamlined order processes by paying attention to details and applying effective problem-solving.</li></ul>   |                       |

## HACKATHONS

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|---|-------------------------------------|
| <b>The 5<sup>th</sup> Annual OPS Microsoft Hackathon</b>  | Feb. 2023 – Mar. 2023               |
| Ontario Public Services, Toronto, ON  |                                     |
| <ul style="list-style-type: none"><li>• Demonstrated leadership by taking the initiative as a project leader for a team of 6 members, successfully delivering a rapid prototype of an emergency mass-notification mobile application using the Microsoft Power Platform.</li><li>• Designed database schema and materialized it using Microsoft Dataverse.</li><li>• Implemented application functionality using Power Fx; assigned roles and privileges to users.</li><li>• Presented solution to the OPS Microsoft Judge Panel as well as the branch head and managers.</li></ul> |                                     |
| <b>2023 National Inter-University Big Data and AI Challenge</b>   | May. 2023 – Jul. 2023 (In progress) |
| STEM Fellowship, Toronto, ON  |                                     |
| <ul style="list-style-type: none"><li>• Collaborated with a team of 4 members to develop a Python-based detection system that detects Pneumothorax (collapsed lung) trained and tested on a 12,047 chest X-ray images dataset.</li><li>• Contributed to the preparation of a comprehensive scientific manuscript and project report.</li></ul>  |                                     |