

# Tarik LaRoda | Software Developer

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## Profile

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Ambitious and highly adaptable Computing Science graduate at Saint Mary's University. Strong communicator with excellent public speaking skills developed through *Toastmasters*. A dedicated hard worker who is capable of working in various types of environments, always giving 100% to every role. Brings a positive and upbeat attitude and is passionate about inspiring others to put forth their best as well.

## Highlighted Skills

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**Technical:** Python, JavaScript, C/C++, HTML/CSS, Java

**Teamwork:** Participated in multiple group projects in university, collaborating with others from diverse backgrounds and cultures to achieve a common outcome within a firm deadline.

**Multi-tasking:** Balances multiple projects, assignments and tasks simultaneously by staying organized, prioritizing well and using time efficiently.

**Communication:** Excellent written and verbal communication skills. Demonstrated through 1<sup>st</sup> Place achievement at Toastmasters Speech Competition where tasked with devising and executing public speeches spontaneously, without prior preparation or knowledge of the selected topic as well as high grades for written academic reports for course such as Operating Systems and Database Systems.

## Education:

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**Bachelor of Science** - Major: Computing Science  
Saint Mary's University, Halifax, NS

**Graduated May 2023**

- Cumulative GPA: **3.28/4.0**

**Relevant Courses:** Data Structures and Algorithms I | Software Engineering | Mobile App Development | Applied Linear Algebra | Advanced Numerical Analysis | Systems Security

## Work Experience

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**Junior Software Developer**

**June – September 2023**

Eigen Development Ltd. Halifax, Nova Scotia

- Developed a program that initializes one server that allows for multiple clients to connect using a username and an encrypted password for increased security. Each client can send separate commands, including terminating the connection, switching to another user, changing the password, and echoing a given message.
- Solved a problem involving the POS and wireless pin pad in which auto gratuity was calculated incorrectly for payments leading to the inconsistent closing of checks, despite being paid in full. By adjusting the formula used, implemented a solution that ensured that card/cash payments on checks remained consistent for customers. Boosting client satisfaction and improving company's reliability.
- Built a Database Management System as part of a larger team project to store partial payments made on a check. Worked closely with one Junior Software Developer, developed DBMS using SQL to store the partial payment data to be accessed by team members' contributions for further calculations. Utilized security techniques such as parameterized queries and escaping user-supplied input to prevent SQL injection attacks.

## Projects

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**Notes Application** – Independent project January 2023

- Developed a responsive web application using JavaScript and HTML/CSS that allowed users to create/store notes resulting in smoother work experience and increased productivity. Scope spanned one month.

**Floyd-Warshall Using Multi-threading and Synchronization** – Academic project March 2022  
Saint Mary's University, Halifax, Nova Scotia

- Implemented the Floyd-Warshall (FW) All-Pairs-Shortest-Path algorithm in a multi-threaded fashion along with enforcing the readers-writers problem resulting in a faster computation as opposed to single-threading using C. Scope spanned 2 months.

**Pong Game** – Academic Exercise November 2021  
Saint Mary's University, Halifax, Nova Scotia

- Developed a responsive Pong Game using Python that allowed users to compete against a computer opponent that cannot lose resulting in entertaining and challenging user experience. Scope spanned one month.

## Additional Achievements

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**Graduate** - The Gentlemen's Club Programme 2019  
Nassau, The Bahamas

- Associated with The Bahamas Beautillion Committee

**1<sup>st</sup> Place winner** - Toastmasters Speech Competition at the club level 2019  
Nassau, The Bahamas

**Ministry of Education's Annual National Awards Presentation** 2019  
Nassau, The Bahamas

- Recognition for high achievement receiving eight A grades for Bahamas General Certificate of Secondary Education examinations.

**Global Scholar** – Invited to serve at Global Young Leader's Conference 2018  
Nassau, The Bahamas