

Kassim Santone

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Skills

Languages: C++, C, Java, Python, Scala, Javascript, SQL, R; **Tools:** Git, Excel, PowerPoint

Experience



LUMENTUM Software Developer

May 2018 – Aug 2018
Ottawa, Ontario

- Wrote real-time alignment code for optical devices in C# which allowed process engineers to receive information on optical devices in real-time.
- Implemented optimization algorithms (Bayesian optimization and bisection method) into existing optical device software to calibrate hardware to run more efficiently.
- Performed statistical analysis on optical device performance with Excel and SAS.



Research Assistant

Sept 2017 – Dec 2017
Waterloo, ON

- Researched Operator Theory and worked towards simplifying (k, m) -transitivity (k, m arbitrary integers).



NETSUITE Software Engineer in Test

Sept 2016 – Dec 2016
Kitchener, ON

- Wrote automation tests in Java to expose vulnerabilities in current codebase.
- Used SQL to data scrub customer issues and updated codebase to prevent issues from recurring.
- Performed manual tests to find issues in NetSuite dashboard prototype; updated dashboard UI and backend to resolve issues.



Data System Administrator

Jan 2016 – Apr 2016
Mississauga, ON

- Created monthly overall equipment effectiveness (OEE) sheets with Excel and linked sheets to SQL database.
- Updated previous monthly OEE models with VBA macros to increase ease of use for operators.
- Updated previous SQL database schema to account for changes in the company.



Application Developer

May 2015 – Aug 2015
Toronto, ON

- Implemented authentication features (facial recognition and picture pattern) into Mobile Banking app on iOS and Android platforms.
- Worked with graphic designer on user interface and user experience for Family Banking app.

Projects



Toy Library

- A Ruby on Rails project where users search for and sign out books using a Postgres full-text search (as well as an advanced search).



Credit Card Fraud Detector

- A Python project implementing machine learning algorithms to predict if a credit card is fraudulent.



JournalShare

- A Python Flask project where users can post journal entries either as private or public to other users.



MathNews

- A clone of HackerNews with real-time updates using GraphQL as a backend.



Unbeatable Tic-Tac-Toe

- A game of Tic-Tac-Toe written in JavaScript with an unbeatable artificial intelligence implemented via minimax algorithm.

Education

University of Waterloo

Sept 2014 - Present

- Double Major in Computer Science and Pure Mathematics.