





# Aayush Sheth

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## SKILLS

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**Languages:** VBA, SQL, Python, Java, C, HTML/CSS, JavaScript, Bash

**Software:** Office Suite, AWS, Tableau, Urban Code Deploy, ClearCase, Jenkins, Git, Jupyter

## EXPERIENCE

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**Canadian Imperial Bank of Commerce, Application Developer** May. – Aug. 2019

- Developed address parsing engine to support address validation in CIBC's mortgage approval application
- Converted Bash scripts into standalone Java programs to be used by mortgage agents to save them time and improve accessibility to applications
- Used Firebase hosted REST API to deploy an app which provided real estate information such as square feet, date of construction etc. when given an address within the Greater Toronto Area
- Reconstructed Java code to fix incorrect server response errors, saving developers time and company resources

**Rogers Communications, Automation Technician** May. – Aug. 2018

- Outlined areas of improvement and designed processes within the Software Developed process that could be further optimized through RPA
- Wrote Shell and Python bots to automate processes resulting in enhanced production quality and reduced labor hours
- Administered UCD to Jenkins pipeline transfer, consisting of tasks such as configuring relevant plugins, creating build and configuration files and running operational processes
- Setup relevant servers, oversaw maintenance, scheduled deployments and performed system health checks

**Royal Bank of Canada, Junior Developer** May. – Aug. 2017

- Developed internal file directory service for easier access to company forms resulting in a decrease of hold time with clients by minutes
- Wrote VBA scripts to automate tasks consisting of cell/table formatting, pivot tables, lookup functions, and formula updates, increasing overall efficiency within the Client Care and Optimization Team
- Used Tableau to analyze client care team effectiveness by creating weekly and monthly client statistic reports using data extracted from a MySQL database

## PROJECTS

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**Data Mining & AI, See More: <https://bit.ly/2lyPdcQ>**

- Wrote a genetic algorithm to optimize test functions such as the Rosenbrock and Himmelblau functions
- Developed a program that uses the arc consistency 3 algorithm solve any valid sudoku puzzle
- Implemented the Apriori algorithm and performed market basket analysis on datasets of sizes 1000, 5000, 20000 and 75000

**Image Processing Library, See More: <https://bit.ly/2Q59Jpy>**

- Wrote an image processing and pattern recognition library in Python that applies various filters on images such as scaling, blurring, sharpening, etc. using convolution matrices
- Created a basic classifier to recognize handwritten digits after generating their feature vectors by using connected components to isolate for numbers within an image

## EDUCATION

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**Wilfrid Laurier University, Honors Bachelor of Computer Science** 2016 – 2020

- Select coursework: Image Processing, Data Mining, Machine Learning, Artificial Intelligence