

# Bilal Ahmed

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## Technical Skills

- Extensive experience with Python, JavaScript (React.js) and Java through academic + personal projects
- Intermediate Knowledge in C and Shell Scripting to automate tasks
- Experience automating test executions via a custom Selenium-based framework
- Experience with functional/non-functional black-box testing
- Familiar with relational databases, SQL and NoSQL

## Transferrable Skills

- Problem solving skills through prototyping and thoroughly testing software
- Quick learner and independent; able to adapt to new systems and software with little oversight
- Proven organizational skills when handling sensitive/confidential information
- Team player skills, such as when working on large projects in groups

## Education

### University of Toronto

Computer Science, B.Sc., Specialist – 3<sup>rd</sup> year  
Toronto, ON

**September 2017 – Present**

## Projects

### Spending Tracker | Personal Project

**May 2019 – Present**

- Designed a full-stack web-application to help users keep track of personal spending, with the aid of graphs, trends and other information
- Utilized React.js front-end, and Flask (python) back-end for handling authentication, and various API routes for transaction data, providing an overall fast and intuitive experience
- Managed data with Google Firebase API (NoSQL database), state management libraries such as Redux, and server/client-side caching to reduce load times and enable offline-support
- Continuously self-deployed and hosted Flask back-end via Gunicorn and Nginx reverse-proxy

### DDSB LAZE | Ministry of Education

**February 2019 – May 2019**

- Created a mobile-friendly web-application to aid organizations in securing the safety of employees during emergencies, such as fire alarms
- Worked with React.js and various Microsoft Graph/SharePoint API endpoints to keep track of employees, authenticate users and implement functionalities such as bulk email notifications
- Implemented support for the Twilio API to facilitate SMS notifications
- Built requirements and new functionalities based on client's needs/wants, which further increased the usability and intuitiveness of the application

### Maze Solver | Academic Project

**July 2019**

- Created an efficient algorithm for solving a given maze in python via the Pillow library
- Implemented a modified version of Dijkstra's Algorithm to find the shortest (and only) path from start to finish of the maze

## Work Experience

### QA | Ontario Ministry of Education

September 2018 – April 2019

Toronto, ON

- Created manual and automated test suites to aid in catching defects early on, and ensuring a more stable release schedule
- Worked with modified Selenium and UFT automation frameworks to build automated test executions with XML and relational databases
- Validated ETL load completeness through SQL queries and IMB Cognos

### Cashier/Cook | Harvey's

July 2017 – August 2017

Toronto, ON

- Increased customer satisfaction by working in teams to provide quick and efficient service, which resulted in decreased customer wait times by up to 10 minutes per person
- Ensured the restaurant maintained a neat appearance and the food met quality and safety standards, resulting in fewer customer complaints

### Administrative/Clerical Assistant | Toronto Police Service

January 2017 - April 2017

Toronto, Ontario

- Reduced the search time of confidential/sensitive documents by organizing them to meet strict criteria, thereby enabling detectives to easily find information that was relevant to their cases
- Boosted productivity by updating databases in Excel, resulting in quicker searches of documents that were not previously in the database
- Assisted detectives in day-to-day tasks by preparing sensitive documents beforehand, which in effect helped detectives work more efficiently and with fewer errors

## Hobbies/Interests

During my free time I enjoy working on side projects and building new skills. I'm fascinated by various topics in science and technology, and also enjoy photography. I aim to keep my personal website up-to-date with all my interests, which you can find at <https://www.billahmed.com>.