Bilal Ahmed

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Technical Skills

- Extensive experience with Python, JavaScript (React.js) and Java through academic & personal projects
- Intermediate Experience with back-end tools such as Flask, Node.js, and Google's Firebase SDK
- Experience automating test executions via custom Selenium-based frameworks
- Familiar with relational databases, SQL and NoSQL

Transferrable Skills

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

Education

University of Toronto **September 2017 – Present**
Computer Science, B.Sc., Specialist – 3rd year
Toronto, ON

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
- Ensured numerous internal and public-facing application were AODA compliant and met the WCAG 2.0 criteria, resulting in better user experience for persons with disabilities
- Validated ETL load completeness through SQL queries and IMB Cognos

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

Projects

Planit | Academic Project **September 2019 – Present**

- A full-stack mobile application (for iOS & Android) that engages users to find events and locations that interest them
- Built using React-Native, Node.js (Express.js framework) and Google Firebase to deliver a high-quality and performant user experience

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 REST API routes for transaction data, providing an overall fast and intuitive experience
- Managed data with Google's Firestore SDK (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

DDSBLAZE | 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
- Programmed a modified implementation of Dijkstra's Algorithm to find the shortest (and only) path from start to finish of the maze