

Bilal Hussain

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Skills

Languages Tools

Java, Python, C, Javascript, SQL, C++, Racket, HTML, CSS, Bash
LaTeX, XML, JSON, SPSS, PSPP, Shell scripting, Android Studio, Eclipse, IntelliJ

Projects

StayInTheLoop

[HTTPS://GITHUB.COM/FUROKEY/STAYINTHELOOP](https://github.com/FUROKEY/STAYINTHELOOP)

2018

Python

- Implemented Reddit bot which finds short summaries to recent popular events
- Bot performs **natural language processing** on titles to filter posts and find keywords using language toolkit
- Will use **Selenium** and **Google Analytics** to find most highly referenced events across the internet

Moodify Music

DELTAHACKS 2018 - PROJECT

2017

Python, Deep Learning API

- Used Indico's **deep learning API** to analyze emotional properties of billboard songs
- Created **Python script** to suggest playlists based on mood (Anger, Joy, Sadness)

Employee Database Management System

[HTTPS://GITHUB.COM/FUROKEY/EMPLOYEE-DATABASE](https://github.com/FUROKEY/EMPLOYEE-DATABASE)

2016

Java

- Produced free, **database interface system** to organize HR information with partner to
- Maintained high usability without need for computer experience due to highly intuitive UI

Smart Calendar App (WIP)

[HTTPS://GITHUB.COM/FUROKEY/SMARTCALENDAR](https://github.com/FUROKEY/SMARTCALENDAR)

2018

Java, Android Studio

- Implemented **Model-View-Presenter (MVP)** design in **Android Studio** calendar app
- Aims to promote productivity by disabling distracting apps when user is not following schedule

Experience

Xerox Research Centre of Canada

MATERIALS DEVELOPMENT LAB TECHNICIAN & ASSISTANT

Jun. 2016 - Aug. 2016

Mississauga, ON

- Implemented **Excel macro** on records which reduced the time needed to tabulate results by **10%**
- Conducted triboelectric tests on toner samples with lab equipment and recorded results in spreadsheet

Journal of Student Science and Technology

ASTROPHYSICS ACADEMIC RESEARCH CO-OP

Jan. 2016 - Jun. 2016

Mississauga, ON

- Produced and submitted research paper on current state of knowledge of circumstellar disk physics models

Local Community Centre - Tech Support/Assistant

WORKED WITH WEBSITE AND DATABASE

Jan. 2011 - Aug. 2017

Mississauga, ON

- Implemented website using **Javascript** and **Jquery** as a team
- Provided daily updating schedule for community events
- Website link: bit.ly/2x0m1IP

Awards & Certifications

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| 2017 | Certificate of Distinction , Senior Canadian Computing Competition - Top quartile of participants |
| 2017 | Certificate of Distinction , Senior Canadian Mathematics Competition - Top decile of participants |
| 2016 | Finalist , DECA Provincials Business Competition 2016 Financial Case Study Finalist |
| 2015 | Conflict Resolution Certification , Specialist High Skills Major Program |
| 2016 | First Aid & CPR-C , Specialist High Skills Major Program - Certified by Red Cross |

Education

The University of Waterloo

CANDIDATE FOR B.S. IN COMPUTER SCIENCE

Waterloo, ON Canada

Sept. 2017 - Present

- Currently: 2A term - 1B GPA: 3.7
- Relevant courses: Object Oriented Design, Computational Logic

Online Courses

COURSERA/LYNDA

- Audited courses on SQL, Android Development, Python, Java development, HTML, XML, JSON

