

# Sakeeb Hossain

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## EDUCATION

### UNIVERSITY OF TORONTO

#### BACHELORS IN COMPUTER SCIENCE

Software Engineering Stream

Expected May 2019 | Toronto, ON

## SKILLS

### PROGRAMMING

Proficient

Python • JavaScript • Java • C

Bash • HTML • CSS

Experience

PHP • C# • Node.js • MySQL

Frameworks & Technologies:

Flask • Bootstrap • Android • Git

## INTERESTS

### AREAS OF COMP. SCIENCE

Graph Theory

Big Data

Machine Learning

Security & Cryptography

Favorite Algorithm:

Ford-Fulkerson (Max-Flow Min-Cut)

## LINKS

[github.com/sakeebhossain](https://github.com/sakeebhossain)

[linkedin.com/in/sakeebhossain](https://linkedin.com/in/sakeebhossain)

## ACHIEVEMENTS

- 2017 3rd Place at Microsoft Coding Challenge at UofToronto
- 2016 2nd Place overall at UTSC FinanceHacks
- 2015 Recognized for Best Design for course project (CSCB07)

## EMPLOYMENT

### CIBC | APPLICATION DEVELOPER

Electronic Financial Transactions Team | Jan 2017 – Apr 2017 | Toronto, ON

- Reduced time needed to generate hourly ATM uptime report by over 20% by optimizing SQL queries.
- Performed SOA testing for new services, checking log files to ensure that no irregular responses occurred.
- Created a tool in C# automating the downloading and parsing of several log files on an sFTP server. Reduced overhead work for testers and significantly improved overall accuracy of manual test reports.
- Debugged a variety of Bash and C scripts, and participated in code reviews.

### MINISTRY OF GOVERNMENT SERVICES | WEB DEVELOPER

Media Delivery Service Team | May 2016 – Aug 2016 | Toronto, ON

- Upgraded web player from Flash to JW Player to add support HTML5 video.
- Created web app in jQuery and PHP that loads a video with setting specified by the user (resolution, caption language, described audio, etc.). Parses XML files to gather sources for specified settings.
- Wrote automated tests using Jasmine JS framework to test websites for compliance to design and accessibility guidelines.
- Gained experience with Agile and SCRUM development methodologies.

## PERSONAL PROJECTS

### LEAPTEXT | DESKTOP APPLICATION

- Allow users to write and erase text with hand gestures by capturing movement with LeapMotion sensor, and then allowing the user to post the message to Facebook or Twitter with a swipe.
- Used Google Cloud Vision API to detect text in user drawings, as well as Facebook and Twitter APIs to publish posts. Used Node.js for backend.
- Winner of "The Hub Creative Hack" prize at HackTheValley.

### FILLME.ORG | WEB APPLICATION

- A tool that helps students fill their class schedules by filtering by criteria such as day of the week, time, discipline and year level.
- Wrote web scraper using Python's request and BeautifulSoup libraries.

### MEERAR | WEB APPLICATION

- A site that gives career advice by analyzing journal logs from users.
- Used Lexalytics sentiment analysis API to assign mood scores and handled backend with Flask and MySQL to store user data.
- Winner of Lexalytics API prize and CPS prize at McHacks 2017.

### WIKIPEDIA GAME BOT | WEB CRAWLER

- Uses Breadth First Search to find the shortest path from a given wiki article to the "Philosophy" wiki article by following hyperlinks.
- Designed selection algorithms to prevent infinite looping.