

# Susheel Kona

2nd Year Computer Science Student, **University of Waterloo**

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## Skills

**Languages** Java • Python • JavaScript • C/C++ • C# • Bash • PowerShell • HTML/CSS

**Tools** Node • Express • Android • Spring • SQL • Mongo • Numpy • Pandas • Tomcat .NET • jQuery • Angular  
Azure • OpenID Connect/OAuth • WPF • ROS

## Experience

### Cyber Security Developer

Cynorix

May 2019–Aug 2019

- Engineered OpenID Connect federated authentication services using **Node** and **.NET** and built a unified login platform across various services
- Designed and implemented multi-factor authentication with device verification, autonomous phone verification and facial recognition to increase user convenience
- Checked for and prevented replay, timing attacks on web services to increase application security
- Re-architected **REST**ful web services and **MongoDB** databases to allow for improved performance and code maintainability, increasing server cold-start time by **50%**.

**Other:** Cashier at Walmart, Programming Tutor at KidsGreatMinds

## Projects

### Bill Classifier

Oct 2019–



- Built an NLP **Naïve-Bayes** text classifier from scratch using Python, **Numpy** and **Pandas** to classify Canadian legislation into different topics
- Used a large training set of pre-classified American bills and pre-processed it to replace American terms with Canadian equivalents

### PocketParliament Android App

Nov 2017–



- Published Android app that helps Canadians stay informed about their elected government (200+ downloads on Google Play)
- Allows users to follow politicians, legislation and topics to receive push notifications on their progress, voting history and social media activity

### BillSearch RESTful API

Dec 2017–Nov 2018



- Used **Spring** MVC, **Tomcat** and Java 8 to build a web service that allows querying of passed and upcoming federal legislation
- Scrapes XML and HTML data from a variety of sources and delivers it in a developer-friendly paginated **JSON** format

### Todo-List

Nov 2016–Mar 2017



- Used **Angular**, Java **servlets** and **Postgres** to build a web app that allows students to collaboratively share assignment descriptions/deadlines
- Allows users to authenticate with Facebook and link courses with pre-existing Facebook class groups

**Other Projects:** Python  $N^2 \times N^2$  sudoku solver • Electronic Receipt Aggregator • Java URI builder • Multiplayer Tetris

## Education

University of Waterloo, Honours Bachelor of Computer Science, Sep 2018–May 2023, Waterloo, ON, Canada

**Interests:** Drums, Model UN (2x Best Delegate), Geopolitics, Debate