

# Tarun Khanna

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## SKILLS

HTML/CSS/JavaScript, C#,  
Python, C++, C, SQL, Java

Git/GitHub, MySQL, MongoDB,  
SQLite, Android Studio, VS  
Code

## EDUCATION

Candidate for Bachelor of Computer Science      *June 2021*  
Co-operative Program, University of Waterloo

Online Coursework:  
Coursera – Machine Learning, Deep Learning (in progress)  
Udacity – Full Stack Web Development, Android Development

## EXPERIENCE

### Full Stack Developer

*Jan. 2018 – present*

Perkin Elmer Software Innovation Labs, Waterloo, ON

- Analyzed clinical trial data to **detect patient outliers** to avoid drug-related adverse reactions preprocessed Python libraries and using **Scikit Learn, Keras** and **Tensorflow**
- Used **Flask API** and **MongoDB** to prepare and run predictive **models that improve over time**
- Created **React Native** app for medical reviewer to interface with API and update the models

### Junior Software Developer

*Apr. 2017 – Sept. 2017*

Envision IT Inc., Mississauga, ON

- Maintained and debugged **C#, .NET** web application and REST API in Visual Studio
- Migrated **C#** console application to **Azure** as a CRON job to efficiently update user records
- Designed and integrated new **MySQL** tables in SQL Server Management Studio to support email editing with **CKEditor** and used **Knockout JS** to manage multiple email configurations

## PROJECTS

### KW Seniors Day Website – Volunteer Experience

*Jan. 2018 - present*

- Built Full Stack website using **Django** and **Wagtail CMS**, hosted as **AWS EB EC2** instance
- Implemented custom page templates for site admin

### Alzheimer Reminder App *DeltaHacks4 – Innovation Challenge Prize*

*Jan. 2018*

- Created an **Android** app that sets medication reminders and alerts caregivers in emergencies
- Implemented CRUD operations for local SQLite storage via **SQLiteDatabase** API

### Memonic *MHacks X*

*Sept. 2017*

- Compressed image bitmap to perform emotional analysis using **Microsoft's Emotion API**
- Processed async **JSON** data and used **MediaPlayer** to play the corresponding tone

### Crooked Plant *Hack The 6ix*

*Aug. 2017*

- Created a **Cordova** app with **Angular4** that tracks data from **Indico API** emotion analysis
- Used **Chart.js** to visualize sentiment and personality trends over time

### Puzzle App *UWP Hacks – 2<sup>nd</sup> Place*

*Sept. 2016*

- Created a drag and drop, customizable puzzle using **JS canvas**
- Detects piece proximity and snaps in place, otherwise rejects incorrect pieces