

TANJOT PANESAR

Systems Design Engineering | University of Waterloo

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[TanjotP](#)

skills Experienced with Android Studio, Java, Kotlin, C++, Python, JavaScript, TypeScript, Arduino, SQL, HTML, CSS.
Tools and Frameworks: Jira, Git, RxJava, Retrofit, Dagger2.

experiences

Software Developer

Accedo.tv

Sept. 2018- Dec. 2018

- Worked on CTVNews, CP24 & Bloomberg android applications in **agile**.
- Used frameworks: **retrofit**, **dagger 2** and **rxJava** in development.
- Created app from ground up, implementing clean architecture; **mvvm**.
- Rerouted videos REST API for SportsNet Playstation4 application in **TypeScript**; fixed in-app caching, improving video load time by 20%.

Software Developer

Ubilab Health Tech

Jan. 2018 - Apr. 2018

- Developed **android** application with authentication service.
- Interfaced app. with hardware via **wifi** or **bluetooth** to monitor urinary trends and creating data-sets through **firebase**.
- Performed usability **testing** on device and application with 20 clients.

Director / Founder

S.T.E.M. Team

Sept. 2015 - Nov. 2017

- Organized two conferences, four workshops and two coding and design camps catered towards 150+ youth; Taught fundamental programming.

projects

SnackOverflow Top 3

mobile app + hardware
UWaterloo-EngHack

- Programmed algorithm to detect changes in restaurant's booze inventory **android**, **firebase** and **arduino** hardware; Top 3 achieved.

2018

Findr Top 3

mobile app + hardware
McMasterU-DeltaHacks

- Created a check-in and search system for controlling crowd levels in public using **android**, **firebase** and **arduino**; Second Place Prize.

2018

BluMug

smart mug + Caffeine
tracker Mobile App

- Developed an app with interactive dashboard, connected via Bluetooth to mug. Developed algorithms to calculate caffeine levels in human body using **C**.

2017

IoT Camera Gimbal

stabilizer + web app

- Limits vibrations; stabilizes position using gyroscope & motors.
- Controlled the stabilizer device via web-app, created in **JavaScript**, **HTML** and **CSS**.

2017

Fit Fish Simulator

machine learning
simulation

- 2D visual simulator of genetic learning algorithm created using **JavaScript** and **HTML**. Generates species of fish to locate ones that can survive the longest under scalable circumstances.

2017

SelectedVote

lack of communication
solved through design

- Established wireframe for an android app used to answer polls and vote. Created in **JavaScript**, **HTML**, and **CSS**.

2016