TANJOT PANESAR

Systems Design Engineering | University of Waterloo

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skills

Experienced with Android {java}, C++, Arduino {c}, JavaScript, SQL, HTML5, CSS, SolidWorks, Photoshop

projects

Findr
Smart Coffee Mug + Caffeine Tracker App @DeltaHacks

Created a decentralized search system for crowd control. Placed 2nd at event. Utilized android studio (java); real-time database; arduino

BluMug
Smart Coffee Mug + Caffeine Tracker App

Developed algorithms to calculate caffeine metrics in human body. Assisted in creating an interactive dashboard connected via Bluetooth to mug.

IoT Camera Gimbal
Camera stabilizer + web page controller via internet

Created 3D model using SolidWorks; limits vibrations; stabilizes position through gyroscope and motors. Collaborated with colleague to control using a wifi-sheild via web-page

Fit Fish Simulator
Genetic/ evolution artificial intelligence simulation

Generates species of fishes to locate ones that can survive the longest under dangerous events; 2D visual simulator of the genetic learning algorithm through JavaScript and HTML5

SelectedVote
solved lack of communication in high school through app.

Established Android app for school voting and polls, used cloud service. Mock up through HTML5, CSS and JavaScript (UI/UX)

experiences

Software Developer
UbiLab - Waterloo, ON
Jan. 2018 - May.2018

Developed entire android app software from scratch and interfaced with hardware, designed to track urination, create data-set and diagnose risks of prostate cancer. Usability testing for device + app with 20 clients

Technician/Designer
XoomTech - Milton, ON
June.2016— June.2017

Repaired 70+ LCD screens for cell phones and laptops; Brand manger; created promotional videos viewed by an average of 20 customers per day

Director / Founder
S.T.E.M. Team - Milton, ON
Sept.2015— Sept.2017

Demonstrated leadership by organizing two conferences, four workshops and two spring break camps projected towards 150+ youth; gained a revenue of $4600. Taught fundamentals of programming