

Bilal Khawar

Web Developer & iOS Engineer

WORK EXPERIENCES

Web Developer & Systems Analyst
McMaster University
Jan '17 - Dec '17

Created a mobile-friendly and responsive web application using **Laravel** and **PHP**. Followed the **MVC** architecture. Designed and setup a **relational database** (MySQL) for the website. Used **Bootstrap**, **Javascript** and **jQuery** to develop front-end features. Implemented **authentication** and routed users according to their ranks.

iOS Developer
EcoBin
Jan '18 - Apr '18

Developed an iOS application for the EcoBin Smart-Composter. Enabled communication of temperature readings from the Arduino to the mobile app via the **Core Bluetooth** framework. Implemented remote notifications to alert users of the composting process through the **Apple Push Notification service**. (Website: smartcomposter.github.io)

Building Systems Co-op
Patheon Inc.
Sep '15 - Aug '16

Controlled various settings of manufacturing equipments by **programming PLCs**. Made monthly **reliability reports** that tracked and analyzed equipment downtime and repair events. Made CAD drawings in **SolidWorks** for **CNC fabrication**.

PERSONAL PROJECTS

Real Estate Website

A responsive website for a real estate agent using Laravel. Developed front-end features using React.

BearStacks Development

Co-founder of BearStacks Development. Helped launch four iOS applications on the App Store.

Scientific Calculator Pro*

Implemented a stack-based algorithm for parsing mathematical expressions. Used Size Classes.

Type Fighter*

A typing game that utilizes SpriteKit for game objects and GameKit for global leaderboards.

Find My Country*

A geography game programmed in Objective-C, using a third party library (WhirlyGlobe-Maply).

Numtate*

A puzzle game that uses UIKit Animations.

AR Drawing

A 3D drawing application that uses SceneKit objects to construct an Augmented Reality scene.

* Currently on the App Store

SKILLS

Proficient in **Java**, **C**, **C++**, **Swift**, **Objective-C** and **Python**

Experienced in Full-Stack Web Development (**Laravel**, **PHP**, **React**, **Javascript**, **ES6**, **jQuery**, **Ajax**, **Bootstrap**, **HTML**, **CSS** and **MySQL**)

Skilled in **iOS App Development**

Good understanding of computer **data structures**, **algorithms**, and **software design patterns**

Knowledgeable in **Object Oriented Programming**, **Test-Driven Development** and **Agile Manifesto**

Familiar with **MATLAB**, **AutoCAD**, **SolidWorks**, and **Microsoft Excel**

EDUCATION

McMaster University
Sep 2013 - Apr 2018

Bachelor of Engineering, Electrical

AWARDS

Certificate of appreciation from the Government of Canada
Awarded for contribution to community

Most Valuable Player (Cricket)
Awarded for leadership and outstanding performance for the senior cricket team

CONTACT

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github.com/bilalkhawar

bitbucket.org/bearstacks

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