
TANVEER KHAN

EDUCATION

Master of Engineering - ECE, Robotics, University of Western Ontario. (Batch of 2019)

Bachelor of Engineering - Computer Engineering, Dr. D.Y. Patil's Ramrao Adik Institute of Technology, Mumbai University. (Batch of 2017)

SKILLS

- **Programming Languages:** C, C++, Embedded C++, Php, C#, Python, Java.
- **Database Management:** MySQL
- **Front End:** HTML5, CSS3, Sass, Vue.js, JavaScript & Bootstrap.
- **Back End:** Php, Python, node.js
- **Frameworks:** Laravel (Php framework), Magento (Php E-Commerce Platform), Hugo (Go Website framework) Wordpress (CMS tool)
- **Mobile frameworks:** Xamarin Studio, Android Studio
- Simulations & Modelling using MATLAB & Simulink
- 3D CAD Modeling using Fusion 360
- Version Control with git.

EXPERIENCE

JUNIOR DEVELOPER - NORTHERN COMMERCE, LONDON

(DEC 2020 - PRESENT)

- Worked on creating responsive e-commerce web apps with Magento & styling with SASS using the Compass framework. Additionally, working with a larger team also involved a rigorous review process.

APPLICATION DEVELOPER - WESTERN TECHNOLOGY SERVICES, UNIVERSITY OF WESTERN ONTARIO, LONDON

(MAY 2019 - DEC 2019)

- Development of the Disaster Recovery Protocol Software, revamped the existing application from core Php to Laravel, including redesigning the database architecture and integrating additional features.

RESEARCH STUDENT - UNIVERSITY OF WESTERN ONTARIO, LONDON

(MAY 2019 - AUG 2019)

- Design of an experiment to determine the effect of embroidering twisted coiled actuators (TCAs) directly into fabric, along with supervision by Dr. Trejos.

ASSOCIATE SOFTWARE DEVELOPER - CENTILLION, MUMBAI

(SEPT 2017 - AUG 2018)

- Responsibilities included development & maintenance of websites, web apps & mobile apps along with ensuring timely delivery of junior developers & interns tasks. Designated as Reporting Officer for 5 existing projects.
- Worked on creating a Language translator plugin using JavaScript and integrating Google calendar API in a Laravel Web App.
- Created a Web App in Php including database design & automated token generation using node.js.
- For a Lead Management System, implemented real-time notifications using Pusher (with Php) along with additional features such as bulk email generation, different user roles & report generation.
- Proficient in end-to-end project development including ER schema & database architecture design, responsive web design, animations, debugging & deployment using AWS instances.

ANDROID INTERN - SWABHAV TECHLABS SOLUTIONS PVT. LTD., MUMBAI

(OCT 2016 - DEC 2016)

- Training program involving practical applications of Object Oriented principles and Design Patterns in Java with exposure to industrial level coding conventions and approaches to help present more readable and scalable code.
- Web Development using Bootstrap & JavaScript and Android Applications using Android Studio with Java.
- Worked on several projects involving advanced design patterns and acquiring of client-specific requirements.

INTERN - SWIFTEL INTERNATIONAL OF HAMMAD AL WAZZAN GROUP OF COMPANIES, KUWAIT

(DEC 2015 - JAN 2016)

- Internship specialising in Android Applications Development, using Xamarin Studio with C#. Implemented basic animations to create a working game application, ShopHop. These animations were later used for an ongoing project by the company.

CERTIFICATIONS

- 'Google Analytics Individual Qualification' by Google
- 'Web Technology and Android App Training' by Unicosoft Technologies.

PROJECTS

• DIGITAL PIANO (JAN 2019 - APRIL 2019)

Created a digital piano by use of a Digital-to-Analog Converter to make 4 different "notes" or sounds. By programming a TM4C123G LaunchPad with a set of switches & a speaker to emit the sounds, a working piano was created.

• GESTURE BASED COMPUTER SYSTEM (SEPT 2016 - JAN 2017)

Using OpenCV, created an application to control the cursor using hand gestures only, for increased accessibility by differently abled persons. Taking video input from the webcam, translated gestures into actions such as 'Right-click', 'Left-click' and 'Double-click'.

• ANDROID APPLICATION - SHOPHOP (DEC 2015 - JAN 2016)

Worked using Xamarin Studio to create a game using animations that allows the users to catch the falling objects while simultaneously keep score of the number of objects 'caught' by the user. Consisted of 7 activities- Menu, High Scores, Score display & Game Activity.

• E-ATTENDANCE SOFTWARE (SEPT 2015 - OCT 2015)

A software for teachers, created using Php, to enter attendance of students during lectures, generate reports of defaulter students and monitor the general trend of attendance during lectures. Involves separate logins for Head of Department (Admin), Teachers and Students.

CO-CURRICULAR ACTIVITIES

- Python Tutor (December 2018 - April 2020) - Concepts ranging from the basics of programming to more complex ideas such as recursion, OOP concepts, data structures etc.
- Active participant of the Social Wing, RAIT (2015-2017) - Volunteered for fundraisers, awareness campaigns, donation drives and as a tutor at children's shelters.