

Gurarsh Singh

(416) 505-0435 - igurarsh@gmail.com

<https://igurarsh.github.io/> - GitHub: [igurarsh](#) - www.linkedin.com/in/igurarsh

Programming Languages:

C/C++ | Java | JavaScript | PHP | Python | Micro – Assembly

Databases:

Oracle | MySQL | MSSQL Server | Firebase | Blynk | MongoDB

Web Technologies:

HTML | CSS | jQuery | Flask | Django | WordPress | React

Operating Systems:

Unix | Linux | macOS | Windows | iOS | Android

Summary

Experienced Computer Engineering graduate with solid IT experience, creating/designing web, and mobile applications. Work background in customer service and IT, with multiple formal reorganizations of outstanding performance.

- Possesses outstanding leadership qualities and consistently heads team projects and supervisory work roles
- Reliable team player capable of adapting to multiple roles amongst agile processes and deadlines
- Highly resourceful in critical scenarios due to an open-minded growth mentality
- Excellent communication skills for back-end deliverables and front facing customer relations

Technical Skills

- Hands on experience with troubleshooting PC/Mac hardware, Windows/macOS/Linux.
- Hands on networking technology experience configuring routers, switches, cisco systems and LAN & WAN connectivity
- Application of electrical engineering fundamentals with real world projects and embedded systems
- Strong knowledge in Linux/Unix based operating systems, Virtual Machines and Microsoft Azure
- Comfortable using most of the latest IDE's like XCode, Android Studio, IntelliJ idea, Microsoft Visual Studio and programs like Adobe XD, Final Cut Pro, Adobe Premier

Education & Certificates

Computer Engineering Technology (April 2021), Humber College

- Advanced Diploma and Dean's Honours list all semesters with a GPA of 3.9

Data Structures and Algorithms (April 2021), certificate course by Geeks for Geeks

CS50's Web Programming with Python and JavaScript (March 2021), certificate course by HarvardX(Harvard University)

Azure Fundamentals AZ 900 (March 2021), certificate by Microsoft

CS50 (August 2020), certificate course by HarvardX(Harvard University)

JavaScript, jQuery, PHP (February 2020), certificate by Solo Learn

Projects

Smart Lock Senior Capstone Project (Home Automation System)

- Led a team of on development of smart door lock system with decentralized subsystems
- Created an Android and iOS application for door control on the Blynk cloud database and mobile platform
- Provided alternate functionality with 2 remote subsystems based on Linux (Debian) Virtual Machines working with either a Raspberry Pi 4 or a STM32F103C8T6 Arduino like microcontroller
- Wired Circuits for a 5V servomotor, SSD1306 OLED display and other peripherals

Homies Android Application Project (Home/Rooms Search Android App)

- Spearheaded a team of 4 to build an Android housing application using Java
- Integrated the application with firebase database for storing all the user data and Facebook API for login authentication
- Utilized Android Studio IDE for both back-end and front-end functionality

Your Finance (Web Application)

- Created a web application to track users spending using Flask, CSS, HTML, and programming language Python
- Implemented a secure login and register method using Django and Python
- Used MySQL database for storing all data, filter query so user can categorize their spending's

Solar Panel (Course Project)

- Created a solar panel tracker using Raspberry Pi, with moving parts connected to external sensors, run by using differential industrial libraries
- Interpreted data with C and Micro Assembly language to provide functionality
- Used various level of industrial sensors like BME280, I2C sensors and buses, TS2561, GPS module GP-20U7, run by own self-developed code and algorithms

Commerce Web Application (Web Application)

- Designed an e-commerce auction website using Django, HTML, CSS
- Implemented various features like Item listings, place bids, place comments, add to watchlist
- Implemented real-time database and Django authentication system for handling user login and storing user data

Wikipedia Clone (Web Application)

- Created a Wikipedia clone using Django, CSS, and HTML
- Implement back-end features to convert user entered text to markup language
- Implemented Search algorithm to find user entered query results from database

Work History

Front Desk Receptionist, Upper Canada College 2020 - 2021

- Monitored multiple incoming calls and answered queries received by guests
- Managed Access cards for students and facility members
- Handled written correspondence, scheduled appointments, send, and forwarded e-mails and compiled reports

Web Developer (Volunteer), Institute of Electrical and Electronics Engineer Humber College 2019 - 2021

- Maintained and updated HTML/CSS templates on regular basis and as required
- Provided technical support to web design team as directed
- Conducted layout design and construction for a variety of websites as assigned using Adobe XD

IT Technician, B2X Apple Service Center 2016 - 2018

- Generated and monitored various service and request tickets
- Performed various modular as well as minor repairs with Mac hardware and iOS devices
- Provided quality customer service to customers by corresponding with customers regarding technical questions, activation of services and problem solving of technology issues.

Leadership and Awards

NEM (National Engineering Month) 2020, Toronto

Carried Engineering Workshops in Humber College by inviting students from different school from all around the Toronto. Designed parts and built instruction manual for students to build a remote car using STM32. Got honorarium award from School of Applied Technology for the participation and representing Humber College in NEM Challenge 2020.

Humber Leadership Program 2020, Toronto

I was able to experience Humber Leadership Program for which only around 30 students were selected from all the 3 campuses of Humber College and University of Guelph-Humber and was able to learn more about skills like management, problem solving, team building, project management.

IEEEExtreme Global Hackathon 2020, Toronto

Team lead in a 24-hour global coding competition and also got a cash prize from Humber College in the recognition of participation.

NEM (National Engineering Month) 2019, Toronto

Won first place in National Engineering Month by competing with major Ontario colleges, representing Humber College in team of 14 students, through which out of 3 students I was also granted OACETT membership and \$3000 money award for my performance and dedication.

IEEE Humber Hackathon 2019, Toronto

I was leading my team in Humber College IEEE annual hackathon. Our team was managed to solve most of the solutions in this 8-hour hackathon and was able to score 4th position out of 11 positions.