

Gursimrat Singh Bhundar

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EDUCATION

University of Waterloo - Bachelor of Science

09/2017 - 04/2021

Joint Honours Mathematics, Honours Science (Physics Concentration), Computing Option

Relevant Courses:

- Object Oriented Software Development
- Algorithmic Problem Solving
- Quantum Information Processing
- Statistics and Probability
- Microeconomics / Macroeconomics
- Financial Analysis
- Bloomberg Analytics
- Foundations of Entrepreneurial Practice

SKILLS

Languages: C, C++, C#, Objective C, Python, Swift, Javascript, HTML/CSS, Ruby, SQL (Oracle)

Tools & Tech: Git, TFS, Bash, Linux/Unix, TCP/IP, Xcode, Visual Studio, .NET, React, Node.js

EXPERIENCE

CEO / SOFTWARE ENGINEER - PETROWAGON

CHANDIGARH, INDIA • 09/2019 - 09/2020

- Strategically planned and executed the formation of the company pilot project as the company CEO.
- Raised **\$30,000** from an angel investor.
- Gained over **200** B2B regular clients in the span of **1** month.
- Coded software application in **Java (Android Studio)** for Android and in **Swift (Xcode)** for iOS.

SOFTWARE DEVELOPER - ARI FINANCIAL

TORONTO, CANADA • 01/2019 - 04/2019

- Designed and created **C#.NET** based web applications and improved website landing page speed by **67%**.
- Developed and improved the accuracy of **geocoding algorithms** by restricting API to locate **3X** more company vendors in a specified region.
- Wrote **SQL** scripts to retrieve and update data on **Oracle** databases.
- Developed and maintained automation unit tests in **C#** and **Ruby**.

LEAD TECHNICAL DEVELOPER – COMPUCOM

TORONTO, CANADA • 05/2019 - 08/2019

- Designed and managed Oracle databases and queries using **SQL** scripts for **100,00** voters.
- Worked with Elections Ontario to digitalise the voting procedure introducing electronic polling for the **first** time in a provincial election.
- Providing on-site software application and hardware support for over **30** polling locations ensuring optimal workstation performance.

TECHNICAL ANALYST - BOLTONSMITH

WATERLOO, CANADA • 01/2016 - 06/2016

- Reduced loading times by **60%** by improving web socket infrastructure.
- Created website layout using **HTML/CSS** practices.
- Managing **website servers**, **Microsoft Server 2008**, **Linux** and **Ubuntu** environment.

PROJECTS

Artificial Intelligence Chess Game: C++

- Chess game coded using object-oriented software development principles with up to 4 levels of human vs. computer variations where level 4 using AI min-max algorithms to generate moves.

LIDAR Noise Filter: C++

- Filter coded to reduce noise in the data coming from a LIDAR sensor attached to a robot using range filter and temporal median filter techniques.

Image Processing Package: C++

- Image editing software coded using decorator design pattern enabling photo editing features such as effects and filters.

IPL Machine Learning Predictive Analysis: Python

- Algorithm coded using machine learning metrics and a neural network approach to predict IPL outcomes, specifically if a batsman will get out based on input constraints.

Machine Learning Spam Filtering: Python

- Tool coded using Support Vector Machines and Multinomials Naive Bayes machine learning models determining whether text received is spam or not.