

# Kisoban Rajendran

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## Summary

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A Recent New Grad Computer Engineering Student from Toronto Metropolitan University. Well-versed in multiple programming languages such as Python, C, C++, Java and VHDL. Also knowledgeable of machine learning algorithms and has experience in using different frameworks such as OpenCV, TensorFlow and NumPy.

## Skills

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- Languages: Python, Java, C, C++, VHDL, HTML, CSS, Javascript, MATLAB, Verilog, SystemC, SQL
- Frameworks: *OpenCV*, *TensorFlow*, *NumPy*, *SciPy*, *Sci-Kit Learn*, *Pandas*
- Software Environments: Quartus, Xilinx, Anaconda, Powershell, Linux, NetBeans, Visual Studio

## Projects

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### Gradient Descent for Logistic Regression

[See Github](#) 

- Batch and Mini - Batch Gradient Descent Algorithms using only NumPy
- Tested its and Error using modern APIs (ex. scikit-learn)
- **Tools Used:** Python, Pandas, SciKit-Learn, Machine Learning

### Automated Parking Management System

[See Project](#) 

- Developed an automated parking lot prototype using an ESP-32 that self updates whenever a car enters the vicinity of the parking lot
- Created a web app using front end services (HTML, CSS and React) for customers to verify their identity
- Implemented a database (Google Firebase) to store customer information which was accessed using SQL
- Collaborated in a team environment to conceptualize and design a prototype within hardware and software requirements
- **Tools Used:** C, Arduino, SQL, Python, HTML, JavaScript, CSS, REACT, OpenCV, ESP32

### Sudoku Solver

[See Github](#) 

- Implemented a Sudoku Solver using a back-tracking algorithm
- **Tools Used:** C

### Card Detection Program

[See Github](#) 

- Implemented a YuGiOh Card Analyzer Program using OpenCV
- **Tools Used:** Python, OpenCV, NumPy

## Education

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### Toronto Metropolitan University (Formerly Ryerson University)

Sept 2020 – May 2025

BEng in Computer Engineering

- GPA: 3.01/4.0
- **Coursework:** DSP, Computer Architecture, Wireless Communications, Intelligent Systems, SOC Design

## Work Experience

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### Lot Associate

Vaughan, ON

Home Depot

May 2021 – Oct 2023

- Boosted Sales by 15% by implementing safety protocols and offering excellent customer service
- Assisted customers with loading their merchandise