# Kisoban Rajendran

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## Summary

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

- 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

**Card Detection Program**                                                                *See Github* ⧉
- Implemented a Card Detection Program in OpenCV to read cards through a camera
- Hashed and saved the read cards into a database using MySQL connector
- **Tools Used:** Python, OpenCV, NumPy, SQL

**Gradient Descent for Logistic Regression**                                              *See Github* ⧉
- Implemented a Gradient Descent Algorithm (Batch + Mini-Batch) using only NumPy
- Tested its accuracy 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

**Suduko Solver**                                                                         *See Github* ⧉
- Implemented a Sudoku Solver using a back-tracking algorithm
- **Tools Used:** C, Visual Studio

## Education

**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

**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