# AMAN PADDA

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## TECHNICAL PROJECTS

### [Freight Shield](#)                                                                                            Sept 2023 – Present
- Freight Shield is a MERN stack-based logistics marketplace with a cross-platform mobile app, integrating an enhanced logbook, CORS for security, and Chakra UI for a responsive design
- **Technology in use**: MongoDB, Express, React, Node.js, Chakra UI, CORS, Android Studio, VS code

### [Elevator Control Simulation](#)                                                                    Nov 2023 – Present
- Developing an Elevator Control Simulation with STM32F103RB microcontroller, using PuTTY for communication protocols and RTOS for task management and system efficiency
- **Technology in use**: C language, Keil uVision MDK, PuTTY, RTOS, STM32 microcontroller

### [Todo List](#)                                                                                                   Sept 2023 – Nov 2023
- Designed and implemented a Todo List application using MEN stack with EJS templating and Passport for hashing
- **Technology used**: MongoDB, Express, Node.js, EJS, Passport, VS code, jQuery, Bootstrap

### [Snack Distributing Robot](#)                                                                         Jan 2023 – Apr 2023
- Created a Snack Distributing Robot using an STM32 micro controller on Keil uVision, integrating sensors communication for logic and line following capabilities
- **Technology used**: C language, Keil uVision MDK, STM32 microcontroller

### [Blindness Detection](#)                                                                                 Jan 2023 – Apr 2023
- A machine learning model that detects the Diabetic Retinopathy for early diagnosis using CNN with accuracy of 78.30%
- **Technology used**: Python

## EMPLOYMENT HISTORY

**Web Developer – [Website](#)**                       SKCDA, Regina, SK                       **May 2023 – Aug 2023**
- Successfully developed and launched a dynamic WordPress website, leveraging Agile methodologies and fast feedback cycle
- **Technology used**: WordPress, JavaScript, Figma, StoriesOnboard, GreenGeeks

**Research Assistant – [GitHub](#)**                    University of Regina                       **July 2023 – Aug 2023**
- Developed an innovative script to synthesize faulty code outputs from ChatGPT, significantly enhanced the training process for NLP machine learning model by providing challenging dataset
- **Technology used:** Node.js, JavaScript

**IT Operations Intern**                                   SGI, Saskatoon, SK                        **Jan 2022 – Aug 2022**
- Resolved daily requests and incidents, managed Azure cloud static and dynamic groups for users and devices, transformed MDM profiles from JAMF to Azure and monitored access to licences and applications in Azure cloud
- **Technology used:** Azure, PuTTY, SNOW

## EDUCATION

**B.A.Sc. in Software System Engineering**          University of Regina          **Sept 2020 – Aug 2024 (Expected)**

## TECHNICAL SKILLS

**Backend Development:** C/C++, Java, Python, Node.js, PHP, Express
**Frontend Development:** HTML5, CSS, JavaScript, jQuery, React, Chakra UI, EJS
**Database Development:** MongoDB, MySQL,
**Content Management:** Git, WordPress, SNOW
**Design Software:** Visual Studio, Xcode, AutoCAD, Solid Edge, Keil