# Balkarn Gill

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🕋 portfolio | 🛅 linkedin | 🖸 github

#### **EDUCATION**

### Master of Electrical & Computer Engineering (M.Eng) - Software Specialization

University of Calgary | GSA Academic Vice Chair | 4.0 GPA

Bachelor of Biomedical & Electrical Engineering (B.Eng)

University of Guelph | Dean's Honour List | Robotic's Team | Engineering Society

Calgary, AB **Graduated: May 2022** Guelph, ON

Expected: May 2024

#### SKILLS

**Programming Languages** Python | Java | JavaScript | C | C++ | PHP | MATLAB | Simulink

> **Technologies** MySQL | Node.js | AutoCAD | SolidWorks | ANSYS | Sharepoint | CircuitLab

**Data Science & Frameworks** Pandas | NumPy | MatPlot-Lib | React.js | Tailwind CSS | Angular | Django

### EXPERIENCE

Systems Analyst Jun 2023 - Present

Zedcor | (Part-Time)

Calgary, AB

- Proactively monitor Genetec system performance, identify bottlenecks, and implement optimization strategies to enhance system reliability and performance.
- · Configure and program sensors using PHP and mySQL to enhance security measures and ensure efficient monitoring of critical areas.
- Increased system efficiency by  $\sim$ 5% in July 2023 by optimizing red zones, filters, and training object analytic

### **Supply Chain & Operations Management**

Oct 2022 - Apr 2023

*Uline* | (Permanent Full-Time)

Milton, ON

- Led and managed a team of 30+ direct reports.
- Maintained a focus on meeting daily volume output targets while adhering to strict cut-off hours.
- Implemented monthly incentives to boost team morale and recognize high-performing employees, resulting in a notable decrease in the department's error rate from 0.021% to 0.017%.

### IT Consultant / Project Coordinator

Apr 2022 - Oct 2022

ATF Transport | (Permanent Full Time)

Woodbridge, ON

- Contributed to the successful integration of new fleet management software by developing a customized **solution** that aligned with the company's unique requirements.
- Demonstrated exceptional troubleshooting skills by effectively identifying and resolving errors in the software and keeping the staff up to date with the latest functionalities and updates through regular briefings.

### Software Developer Intern

Sep 2021 - Apr 2022

Carnostic Inc. | (Internship)

Toronto, ON

- Assisted the team to build frontend and backend product features from start to finish: through conception, research, implementation, and maintenance.
- Contributed to the development of the user interface utilizing Sketch and Figma to visualize the design and Java for implementation.
- Collaborated with the team to continuously collect and review customer data and feedback for optimization opportunities and validation of user experiences.

#### NOTABLE PROJECTS

### Neo Financial's "Tech Thursdays" Web Application

**Autonomous Plant Disease Detection Robot** 

Aug 2023 - Present

Full Stack Developer

Calgary, AB Recognized the need for an event-specific website for Neo Financial's weekly tech events in Calgary & Winnipeg,

connected with the marketing lead and proactively offered my expertise, assisting with the development of its front-end using React and back-end using Drupal to enhance user engagement and event visibility. · Collaborating with a small team of software developers to incorporate many features such as user authen-

## tication & authorization, event management, speaker management, registration & ticketing, sponsor & partner management, newsletter subscription, and email notifications, through the use of APIs and a headless CMS.

Jan 2022 - Apr 2022

Software & Circuitry Lead

Guelph, ON

- Coordinated a team of interdisciplinary engineers in building an automated "Pathfinder", programmed to weave through rows of plants on its own, avoiding obstacles and detecting signs of disease in plants.
- · Temperature sensor, humidity sensor, and ultrasonic distance sensor were wired and programmed using Arduino, a hyperspectral camera was also wired into the design and programmed using C via a Raspberry Pi, and important data points were transmitted using a Wi-Fi module.
- Won **1st place** at the university's W22 innovative engineering design competition.