

# Kirti Mehra

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## EDUCATION

University of Toronto

(Sept 2019 - July 2024)

**Bachelor of Engineering, Computer Engineering (B.A.Sc.)**

Minor in Engineering Business – Rotman School of Management

Certification in Artificial Intelligence & Machine Learning

## WORK EXPERIENCE

WINGMATE INC, Business Software Analyst

(April 2025 - Present)

- Scoped, designed, and deployed end-to-end software solutions for 20+ clients across multiple industries, including logistics, healthcare, and field services.
- Analyzed client workflows and translated business requirements into scalable, data-driven solutions integrated with the Wingmate platform.
- Developed custom integrations, automated document workflows, and managed databases using JavaScript and Ruby on Rails.
- Led UI/UX design and technical implementation from requirements gathering through deployment and optimization.

HIGHTECH EQUIPMENT & SOFTWARE, Digital Transformation Manager

(Sept 2024 – March 2025)

- Conducted detailed real estate investment analysis and market research, delivering data-driven projections and strategy recommendations that supported a 15% revenue growth in new markets.
- Directed product research, project management and vision planning, driving investment optimization and positioning the business for diversified market expansion by identifying high-potential segments and reducing risk.

UNIVERSITY OF TORONTO INFORMATION SECURITY, Junior Analyst

(May 2023 - Sept 2023)

- Automated the employee onboarding process with PowerApps, PowerAutomate, PowerBI, and SharePoint, reducing onboarding time by 30%.
- Architected and presented comprehensive automation plans to 5 UofT Directors
- Built and migrated 7 pages of the UofT Information Security website using WordPress.

SOTI INC, Product Owner Intern

(May 2022 - May 2023)

- Managed the scrum process, efficiently routing issues, resolving bugs, and maintaining cross-functional communication, improving the efficiency of escalation meetings by 50%.
- Trained 12+ colleagues in using JIRA, PowerBI, and escalation analysis.
- Utilized JIRA and AHA! to plan and execute the software development cycle, successfully managing over 5 releases, including tickets, user stories & features.
- Analyzed 100+ technical customer escalations (911's) prioritizations.

HIGHTECH EQUIPMENT & SOFTWARE, Digital Analyst

(April 2019 – Sept 2022)

- Coded and updated the company website using HTML, CSS, Bootstrap, and cPanel and established a successful marketing platform (Facebook, Kijiji, Google Ads), increasing engagement by over 50%.

## **CELESTICA LLB, Mechanical Integration and Quality Testing**

**(July 2020 - Sept 2020)**

- Assembled network stabilizers and tested 200+ bio-technical products (quality assurance)

## **PROJECTS**

### **EMOTION WATCHERS CAPSTONE, Artificial Intelligence Pupillometry | [Github](#)**

**(July 2023 - April 2024)**

- Created an integrated system for pupillometry analysis and facial expression biometrics for emotion detection with the Bank of Canada as a key stakeholder.
- Conducted experimentation, aided in the development of a pupillometry model, a facial model, and a fusion model, which achieved an accuracy of 98% using Python (Convolutional & LSTM).

### **BLUESURF | [Video](#), [Github](#)**

**(Sept 2023 - Nov 2023)**

- Collaborated with a 7-member team to develop BlueSurf, a campus events app, from concept to deployment using Figma, Flask, React, Bootstrap & PostgreSQL.
- Led BlueSurf's user interface, implemented the frontend, and created the database schema.

### **BLUESKY SOLAR RACING UNIVERSITY OF TORONTO | [Website](#)**

**(Sept 2020 – Feb 2023)**

- Lead of a globally recognized competitive solar vehicle design team where I managed the advancement and in-kind teams, consisting of 10+ members, including technical procurement, planning overview, task delegation & marketing.
- Conducted research on required solar vehicle materials and sponsorships alongside maintaining interpersonal relationships with 15+ corporate sponsors (TD Bank, Manulife, Bombardier, Solcast).

## **SKILLS**

**Skillset:** Product Management, Design (UI/UX), AI/ML, Automation, Software, Data Analytics & Visualization

### **Programming Languages**

Python, SQL (MySQL/PostgreSQL), C/C++, HTML, CSS, ReactJS, JavaScript, Ruby

### **Data Science and Machine Learning Tools**

Pandas, NumPy, CNN, LSTM, Scikit-learn, TensorFlow

### **Web Development and UI Tools**

WordPress, Bootstrap, Figma, Flask, Shopify

### **Automation Tools**

PowerApps, PowerAutomate, SharePoint, PowerBI, Visio, Lucid Chart

### **Product Management Tools**

Jira, AHA!, Agile, Scrum Master Experience, Waterfall

## **CERTIFICATIONS**

Engineering Business (Management)

Artificial Intelligence Engineering