

# Savan Malhotra

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## Skills

**Languages** Java, JavaScript, TypeScript, Python, Swift, Kotlin, HTML/CSS, SQL  
**Technologies** Git, React, Bootstrap, MongoDB, Node, Express, Flask, Arduino, Twilio, Firebase

## Education

### University of Waterloo

BMATH - COMBINATORICS AND OPTIMIZATION, MINOR IN COMPUTING AND ECONOMICS

Waterloo, ON  
Sep. 2020 - Apr. 2025

- Relevant Courses: Functional Programming, Algorithm Design and Data Abstraction (in C)

## Experience

### Notify, Cofounder | Toronto, ON

Jun. 2017 - Present

- Queue management system for appointment based businesses looking to improve customer experience and retention
- Published **iOS** and **Android** apps that allow users to search and book appointments at nearby businesses
- Shipped a web app for businesses to see their queue, notify customers, add walk-in customers, and view analytics to enhance their customer management
- Used **Swift**, **Java/Kotlin** for the mobile apps, **React**, **Node** for the web app, and **Firebase** system wide [🔗]

### SOLUM, Web Developer | Remote

May. 2020 - Aug. 2020

- Shipped an interactive web dashboard to connect student volunteers to long term care residents through **VoIP**
- Built using **React**, **Node** and the **Zoom Web SDK** [🔗]

### Pickering High DECA, VP of Leadership | Pickering, ON

Sep. 2019 - May. 2020

- Used experience gained from leadership conferences to lead members through community initiatives including global entrepreneurship week, organizing panel discussions with business leaders, and local roadside cleanups
- Built an attendance tracker to manage **70+** members during the regional competition using **Firebase** and **HTML/CSS**

### Pickering High Robotics Club, VP of Autonomous Robotics | Pickering, ON

Sep. 2018 - May. 2020

- Lead team through the project life cycle to ship multiple robots showcased at the Skills Ontario Competition
- Taught **20+** members Arduino hardware interface and software development fundamentals
- Implemented a **MQTT** network to interface a sample **TensorFlowLite iOS** app with a **Raspberry Pi**, leveraging intelligence collected from the phone to control the motor movement

### CYNEA, Lead Mobile Developer | Pickering, ON

Sep. 2019 - Dec. 2019

- System that recommends users healthy recipes based on the Canada Food Guide
- Lead the team to build CYNEA's **iOS**, and **Android** applications using **Swift**, **Java/Kotlin**, and **Algolia** [🔗]

### SM Consulting, Freelance Web Developer | Toronto, ON

Sep. 2015 - Jun. 2017

- Consulted and built dynamic websites for **5+** clients while providing input for operational improvements
- Gained experience with a variety of languages and technologies include **JavaScript**, **SendGrid** and **Twilio**

## Projects

### Valeo [Top 15/115 | HackAgainstCovid], MongoDB, Express, React, Node, Azure Chat Bot

- **MERN** stack web app that provides small businesses tools to grow, and insightful digital expansion tips via a chat bot
- Focused on system architecture and **Azure chat bot** implementation [🔗]

### Digital Newspaper Portal Javascript, PHP, MySQL, Apache, Firebase

- **CMS** system built using a **LAMP** stack for school's digital newspaper to streamline the editorial and publishing stages of articles directly to the public website, internally used by **25+ members**
- Learned to use **Firebase** user authentication, and implement **CRUD** functions

### Impact React, Python, Flask, Axios, OpenAI API

- Web app designed to help students thrive in an online learning environment harnessing the use of AI
- Used the **OpenAI API** to summarize study notes inputted by users, and served specific subtopics for further study based upon the general topic inputted by the user [🔗]

### ShelterTO React, Node, Algolia Search

- Web app that used the City of Toronto's **REST API** to assist users with finding a shelter that acclimates their needs [🔗]

INTERESTS INCLUDE TECHNOLOGY, SPORTS, INVESTING, AND MUSIC