

# 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
- Spread headed a web app for businesses to see their queue, notify customers, add walk-in customers, and see analytics to enhance their customer management
- Used **Swift, Java/Kotlin** for the mobile apps, and **React and Node** for the web app [🔗]

### SOLUM, Web Developer | Remote

May. 2020 - Dec. 2020

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

### CYNEA, Mobile Developer | Pickering, ON

Sep. 2019 - May. 2020

- System that recommends users healthy recipes based on the Canada Food Guide
- Lead the team to implement **iOS, Android** and back end applications using Swift, Java, Node, and Algolia [🔗]

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

Sep. 2015 - Jun. 2017

- Consulted and built dynamic websites for **5+** clients while providing input on operational improvements
- Gained experience with API implementation through the development of e-commerce and promotional websites using JavaScript, HTML/CSS, PHP, SQL, WooCommerce, 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 chat bot
- Focused on system architecture and Azure chat bot implementation [🔗]

### Autonomous Robotics Arduino (C++), Raspberry Pi, Python, Swift

- 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 (2018-2019)
- Implemented a MQTT network to interface a sample TensorFlowLite **iOS** app and a Raspberry Pi, leveraging intelligence collected from the phone to control the motor movement (2019-2020)

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

- CMS system built using **LAMP** stack for school's digital newspaper to streamline the editorial and publishing stages of articles directly to our website, internally used by **25+ members**
- Learned **CRUD** functions fundamentals, user authentication with Firebase, **SQL** database structures, and the stages of the **project life cycle**

### ShelterTO React, HTML, CSS, Algolia Search

- Web app that pulls daily data from the City of Toronto to help assist users in Toronto with finding a shelter near them that acclimates their needs.
- Built using **React** for the front-end, **Node** for data retrieval, and **Algolia** for data index and search [🔗]

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

- Web app designed to help students thrive in an online learning environment harnessing the use of AI.
- Uses the **OpenAI API** to summarize study notes inputted by users and also allows users to input a general topic and receive specific subtopics or points to study further [🔗]