

# Setu Potnis

## Engineering Undergraduate



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www.setupotnis.com



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**Programming Languages:** JavaScript, Java, Python, NodeJS

**Web Technologies:** REST, Flutter, Web Sockets, J2EE, HTML5, CSS

**Data Modelling and Management:** JSON, XML, XSLT, MySQL, MongoDB, Firebase

**Frameworks:** React, Express, Django

## Professional Experience

### Web Application Developer

*National Research Council, Ottawa, Ontario | Jan 2020 - Present*

- Testing, observing and deploying data visualization systems to production servers increasing usability by **14%**
- Creating data visualizations with **D3.js** to provide further **machine learning** tools such as energy usage statistics to reduce expenses
- Employing the use of data structures in **Java** and **JavaScript** to reduce repetitive code by **12%** and increase scalability of algorithms by **16%**
- Communicating with clients through technical guides to present the product and increase customer satisfaction

### Software Development Intern

*Mirrabel Inc., Toronto, Ontario | May 2019 - Aug 2019*

- Diligently worked with the CTO to manage the backend of the website in **Java** and reducing bugs by 40%
- Produced a Shopify application by designing the user interface with **React.js**, and a functional backend with **Express** and **NodeJS**
- Integrated the Shopify API to permit existing e-commerce cosmetic stores to acquire **90%** better-targeted sales and data through direct marketing
- Automated email marketing in **Python** to grant quicker access to cosmetic partnerships

## Projects

### uOttaiFit

*UOttaiHack3, University of Ottawa, Ottawa, Ontario | Feb 7 - Feb 9, 2020*

- Achieved top 20 out of 177 participants at UOttaiHack3
- Designed an application with a **React.js** frontend and a **C++** and **Python** backend to prevent weightlifting injuries
- Tested the software by doing gym exercises in order to train the **machine learning** model with **TensorFlow**
- Employed user testing to determine accuracy and usability of model for future development and improvement

### Smart Mirror

*University of Waterloo, Waterloo, Ontario | Sept 2019 - Dec 2019*

- Constructed a smart mirror mobile application with the **Flutter** SDK to create a more personalized atmosphere
- Implemented a to-do list which can send reminders to emails when a task is incomplete using the **Provider** flutter package for state management

## Education

### Honours Nanotechnology Engineering with Co-op

University of Waterloo | Bachelor's of Applied Science, 2023

- Relevant Courses: Data Structures and Algorithms, Computational Methods, Introduction to Python