

Palaash Kolhe

✉ pkolhe@uwaterloo.ca | 🌐 Website | 🔗 linkedin.com/in/palaash | 📄 github.com/PalaashKolhe

Skills

Languages: JavaScript, C, C++, Python, Java, HTML, CSS

Technologies: Git, MongoDB, Express, React.js, Node.js, Bash, OpenCV, scikit-learn, React Native, Regex, OOP

Projects

Investing with Machine Learning

Dec 2020 - Jan 2021

- Developed a **stock price forecaster** using machine learning libraries to present potential growth stocks.
- Adapted a data parser using **regex** to extract stock data from **21,000 HTML** files to label as outperformers or underperformers. Introduced complex data structures using the **numpy and pandas** library to streamline processing of these **HTML** files.
- Classified data using a **support vector machine (supervised machine learning model)** to predict which stocks were bound to do better than the S&P 500.

Smart Glasses

Sep 2020 - Dec 2020

- Designed and created a pair of **text translating smart glasses**. The glasses scan foreign language text through a camera and display the English-translated text on an **OLED display** on the glasses.
- Developed a media transfer method using the **Dropbox API** in a **Python** script to transfer images taken from the glasses to a remote server for **text recognition and translation**.
- Devised the **OCR script** using **OpenCV** to scan images for any foreign language text, and then applied the **Google Translate API** to convert the text to English.

Stock Market Widget

Jan 2020 - Jun 2020

- Constructed a **UI design-oriented graphical widget** that displays the latest stock data requested by clients.
- Scraped **HTML** data from finance websites (MarketWatch/Yahoo Finance) with **Beautiful Soup 4** to create **labelled stock data**. Graphed live price changes using **matplotlib** to visualize the stock trajectory.
- Designed the widget interface using the **tkinter GUI library** to display the stock data in a sophisticated user interface. Implemented the **design-thinking process** when planning out this project and its purpose.

Experience

Telus World of Science

ROBOTICS LAB ATTENDANT

Feb 2019 – Present

- Implemented a maze solver with the **ROBOTC** language in order to teach coding to customers.
- Developed distance tracking and color trailing algorithms using **infrared and colour sensors** to create efficient maze solving solutions, increasing overall maze completion rates by **40%**.

Tech Talk Club

PRESIDENT

Sep 2019 – Jun 2020

- Developed workshop course material in **HTML, CSS, and Python** to spread the knowledge of programming in the community.
- Coordinated and led a team of volunteers towards teaching the basics of programming to students.

Walmart

SEASONAL SALES ASSOCIATE

Apr 2020 – Jun 2020

- Managed electronics department by keeping products stocked and providing technical solutions to customers to deliver an **optimal customer service experience**.
- Demonstrated **team working abilities** by collaborating with fellow employees to ensure store floor was running smoothly.

Awards

Mar 2018	Nexen Sr. Innovator Award Awarded to an original project that describes a technological advancement .	Wood Buffalo Youth Science Foundation
Feb 2019	Collins Aerospace Innovate Award Recognized for the most innovative and creative robot design solution.	FTC Alberta Championship

Education

University of Waterloo

Waterloo, ON

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING (BSE)

2020 – 2025

GPA: 3.9