

Palaash Kolhe

✉ pkolhe@uwaterloo.ca | ☎ (780) 799-6031 | 🌐 Website | 💼 linkedin.com/in/palaash | 🐙 github.com/PalaashKolhe

Skills

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

Technologies: React.js, Node.js, OpenCV, Git, Next.js, winkJS, MongoDB (NoSQL DB), Express, React Native, OOP

Experience

Utradea

TECHNOLOGY DEVELOPMENT INTERN

May 2021 – Present

- Led and built **full-stack portfolio balancing tool** using the **MERN stack** and **linear algebra computation** libraries to allow the user to realign the weightings of their assets, increasing user traffic by **13%**.
- Developed **front-end fair value projection page** using **React.js** and styled with **SCSS** to display automated discounted cash flow with **responsive charts** for every stock.
- Implemented **sentiment analysis** using **winkJS (NLP library)** and **Node.js** to analyze **10,000+** social media posts per day and quantify community sentiment surrounding stocks.
- Developed various **RESTful API endpoints** using **Axios** (promise-based **HTTP** client), to fetch data and update the **Mongo database**.
- Designed and created **server-side web application logic** using **Node.js** that integrated the app with other third-party web services such as **Facebook's Graph API**.

Telus World of Science

ROBOTICS LAB ATTENDANT

Feb 2019 – Jan 2021

- Implemented a maze solver with the **ROBOTC** language in order to teach coding to visitors.
- Developed distance tracking and color trailing algorithms using **infrared and colour sensors** to increase 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 executives and volunteers towards teaching the basics of programming to students.

Projects

AI Investor Bot

Dec 2020 – Jan 2021

- Developed a **stock price forecaster** using **scikit-learn (ML library)** in **Python** to present potential growing stocks.
- Introduced complex data structures using **numpy** and **pandas** to streamline processing of **HTML** files, reduced data retrieval time by **29%**.
- Classified data using a **support vector machine** to predict which stocks were bound to do better than the S&P 500.

Smart Glasses

Sep 2020 – Dec 2020

- Collaborated on a **5-person team** to create a pair of **text translating smart glasses** that scan foreign language text through a camera and display the English-translated text on the glasses lens.
- 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 foreign text and convert to English through the **Google Translate API**.

Stock Market Widget

Jan 2020 – Jun 2020

- Constructed a **UI design-oriented graphical widget** using **Python** to display the latest stock data requested by clients.
- Scraped **HTML** data from finance websites with **Beautiful Soup 4** to create **labelled stock data**.

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

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING (BSE)

GPA: 3.9 / 4.0

Waterloo, ON

2020 – 2025