Palaash **Kolhe**

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Skills

Languages: JavaScript, C, C++, Python, HTML, CSS, SCSS
Technologies: React.js, Node.js, OpenCV, MongoDB, Next.js, winkJS, Express, Firebase, React Native, OOP, Git

Experience

Utradea

Technology Development Intern *May 2021 – Sep 2021*

- 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

Waterloo, ON

Candidate for Bachelor of Software Engineering (BSE) *2020 – 2025*

GPA: 3.9 / 4.0