Palaash Kolhe

▶ pkolhe@uwaterloo.ca | □ (780) 799-6031 | ♦ Website | □ linkedin.com/in/palaash | □ github.com/PalaashKolhe

Skills ____

Languages: Java, JavaScript, C, C++, C#, Python, SQL, HTML, CSS, SCSS

Technologies: Spring, Node.js, MongoDB, Firestore, Micronaut, Express.js, ASP.NET, React.js, OpenCV

Infrastructure: AWS, Google Cloud, Docker, Terraform, Git, Jenkins

Experience _____

Ford Motor Company

SOFTWARE ENGINEER INTERN

Jan 2022 – Apr 2022

- Developed asynchronous RESTful microservices using Java Spring Boot to publish critical alarm events to 5 teams, utilizing the GCP Pub/Sub message broker.
- Optimized outdated infrastructure by using the **Micronaut** framework with GraalVM within the Connectivity Dashboard's data visualization system, reducing server response times by **77%**.
- Engineered a **Pub/Sub topic subscriber** service using Spring and Terraform to consume and store published messages in **SQL-based Datastore DB** with **0% message loss rate**.
- Created **Docker images** for microservices and performed Docker container based deployments to **AWS ECS** and **GCP Cloud Run**.
- Implemented unit and integration test cases using JUnit and Mockito to follow test-driven development process.

Utradea

TECHNOLOGY DEVELOPMENT INTERN

May 2021 - Sep 2021

- 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.
- 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 various RESTful API endpoints using Axios (promise-based HTTP client), to fetch data and update the MongoDB.
- 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**.

Projects _____

Meal Drop

Jan 2022

- Engineered a full-stack application utilizing the MERN stack to create a pickup scheduling platform to mitigate food waste problems.
- Designed scalable data schemas implementing **Node.js** and **MongoDB** to store critical data.
- Created API layer using **Express.js** and **Node.js** to accept **CRUD** requests for pickup postings.

Carbon Neutral Shipping App

Dec 2021 - Jan 2022

- Built a web app using **C#** and **ASP.NET MVC** to track carbon emissions from package-based delivery.
- Implemented an object-database mapper using the Microsoft Entity Framework to maintain and enhance the data framework.

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.

Awards

Nexen Sr. Innovator Award

Awarded to an original project that describes a technological advancement.

Wood Buffalo Youth Science Foundation

Collins Aerospace Innovate Award

Recognized for the most innovative and creative robot design solution.

FTC Alberta Championship

Education __

University of Waterloo

Waterloo, ON 2020 - 2025

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING (BSE)

GPA: 3.9 / 4.0