Palaash **Kolhe**

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Skills

Languages: Java, JavaScript, C, C++, C#, Python, SQL, HTML, CSS, SCSS
Technologies: Spring, Docker, Node.js, MongoDB, React.js, Express.js, ASP.NET, Terraform, OpenCV
Platforms: AWS (Redshift, S3, SQS), GCP, Git, Datadog, Splunk, Jenkins

Education

University of Waterloo   *Waterloo, ON*
BACHELOR OF SOFTWARE ENGINEERING (3RD YEAR)   *2020 – 2025*

Experience

Zynga Inc.
SOFTWARE ENGINEER INTERN - PAYMENTS TEAM   *Sep 2022 – Present*

- Conceived process of automatically requeueing dead letter queue items through a scheduled job in **Spring Boot**, saving **120+** developer hours in support calls and maintenance jobs.
- Utilized Aspect-Oriented Programming in **Java** to track duration and status of DAO queries and endpoint pings to publish monitoring information to **Datadog** and **Splunk**, reducing excess logging costs by **4%**.
- Refactored **Java** Enum class to dynamically update its types through a scheduled task using data fetched from an **AWS S3** bucket, negating the need to manually add the type and thereby decreasing release overhead by **10%**.
- Automated release branch cuts by creating **Jenkins** pipelines, eliminating human error and saving **100** developer hours per year.

Ford Motor Company
SOFTWARE ENGINEER INTERN   *Jan 2022 – Apr 2022*

- Developed asynchronous RESTful microservices using **Spring Boot** to publish critical alarm events to **15+ 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- Optimized outdated infrastructure by using the **Micronaut** framework with GraalVM within the Connectivity Dashboard's data visualization system, reducing server endpoint response times by **77%**.
- Engineered a Pub/Sub topic subscriber service using **Spring** and **Terraform** to consume and store vehicle telemetry data in SQL-based Datastore DB with **0%** message loss rate.
- Engineered automated testing suite using **Java** as part of the continuous integration process, increasing test coverage by **25%**.
- Created **Docker images** for microservices and performed Docker container based deployments to **GCP Cloud Run**.

Utradea
SOFTWARE ENGINEER 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 **30+** RESTful API endpoints using Axios to process server logic, 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

Chess Engine   *Jun 2022 - Aug 2022*

- Collaborated on a 3-person team to create an interactive chess game engine using **C++** foundations.
- Utilized the observer and decorator **design patterns** to accelerate the chessboard architecture development.
- Applied **OOP** concepts such as **abstraction, encapsulation**, and **inheritance** to increase modularity and strengthen security.

Meal Drop   *Jan 2022*

- Engineered a full-stack app 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.