Palaash **Kolhe**

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Skills

Languages: Java, JavaScript, C, C++, C#, Python, SQL, HTML, CSS, SCSS
Technologies: Spring, Node.js, MongoDB, Micronaut, Express.js, ASP.NET, React.js, OpenCV
Platforms: AWS, Google Cloud, Firestore, Docker, Terraform, 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 requeueing **dead letter queue SQS** items through a **scheduled Jenkins job** while maintaining **0%** item duplication rates. Wrote technical specs, held internal review meetings, and drove this feature to completion.
- Utilized Aspect-Oriented Programming to track duration and status of DAO queries and endpoint pings, publishing monitoring information to **Datadog** and **Splunk**.
- Migrated data from **AWS Redshift** using SQL and stored the processed data in **S3** buckets to dynamically update Enum class values, reducing time spent on manual testing by **78%**.
- Automated release branch cuts by creating **Jenkins pipelines**, reducing build times by **30%** through caching dependencies.

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- Optimized outdated infrastructure by using the **Micronaut** framework with GraalVM within the Connectivity Dashboard's data visualization system, reducing server response times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.
- Engineered automated testing framework as part of the continuous integration process to achieve **90%** code coverage.
- Created **Docker images** for microservices and performed Docker container based deployments to **AWS ECS** and **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 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 pattern** 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.