Palaash Kolhe

Software Engineer

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Skills

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

Education

Bachelor of Software Engineering   *Waterloo, ON*
University of Waterloo   *2020 to 2025*

Work Experience

Software Engineer Intern   *New York City, NY*
Terrace Inc.   *May 2023 to Present*

- Developed token listing process using TypeScript and GraphQL, leveraging CoinGecko's API for token information retrieval, resulting in efficient asset addition, and saving over 200 hours of manual effort.
- Optimized asset management by migrating tokens to a SQL-based table, with a TypeScript based dynamic resolver that periodically updates and delivers assets through an efficient GRPC endpoint.
- Built A-star search algorithm in Go to discover optimal trading paths across markets, boosting response times by 23%.

Software Engineer Intern, Payments   *Toronto, ON*
Zynga Inc.   *September 2022 to December 2022*

- 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.
- Implemented observability measures in Java to track duration and status of database queries and endpoint pings to publish monitoring information to Datadog and Splunk, reducing excess logging costs by 4%.
- Optimized data containers by dynamically updating them through scheduled tasks, fetching data from an AWS S3 bucket to eliminate manual type additions, decreasing release overhead by 10%.
- Automated release branch cuts by creating Jenkins pipelines, preventing human error, and saving 100+ developer hours per year.

Software Engineer Intern   *Dearborn, MI*
Ford Motor Company   *January 2022 to April 2022*

- Developed asynchronous RESTful microservices using Spring Boot to publish critical alarm events to 15+ teams, utilizing the GCP Pub/Sub message broker.
- Architected end-to-end Pub/Sub infrastructure with a Spring and Terraform-based subscriber service, achieving 0% message loss and seamless storage of vehicle telemetry data in a SQL-based Datastore DB.
- Engineered Java-based automated testing suite for continuous integration, boosting test coverage by 25%.
- Leveraged Docker to create microservice images and executed container-based deployments to GCP Cloud Run.

Software Engineer Intern   *Toronto, ON*
Utradea   *May 2021 to September 2021*

- Utilized winkJS and Node.js to conduct sentiment analysis on 10,000+ daily social media posts, quantifying community sentiment towards 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 MongoDB.
- Engineered Node.js server-side logic to integrate the app with multiple external APIs, including Facebook's Graph API.

Projects

Operating System   *January 2023 to April 2023*

- Designed and implemented core components of the operating system, including the kernel, memory management, and process scheduling, receiving 100% on the course lab.
- Utilized low-level programming languages C and assembly to ensure efficient and optimized system performance.