

Karlo Delalic

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Experience

Adobe

San Francisco Bay Area

SOFTWARE ENGINEER

Nov. 2020 - Present

- Developed reliable and performant Kotlin and Java services for Adobe Aero and the BlobStore service.
- Designed and developed a blob garbage collection service. This reduced storage costs for the whole platform.
- Drove the implementation of the "Copy blob by ID" feature with same-region and cross-region support on AWS and Azure. This paved the way for blob copy improvements which resulted in an overall performance increase.
- Increased blob hashing performance by 30% through profiling, prototyping, and performance testing.
- Proposed a redesign of a multi-step publishing API into a single call API. This led to a more reliable publishing experience and a decrease in failed publishing attempts.
- Collaborated with the Aero client team to implement a prototype for WebXR and App Clips. This enabled users to view augmented reality experiences in a more streamlined manner.
- Onboarded a newly hired staff engineer through multiple bootstrapping sessions and by creating an information wiki.

IBM

Markham, Ontario, Canada

SOFTWARE ENGINEER INTERN

May 2018 - April 2020 (24 months)

- Designed and developed a NodeJS CLI tool that scans a project's open source dependencies and generates a report for review by the legal team. Reduced an entirely manual effort to a single automated Jenkins cron job.
- Developed an automated E2E regression testing suite capable of running multiple types of tests such as Selenium WebDriver, AVA, and JUnit on TravisCI. Reduced the number of regressions by 50%.
- Implemented gRPC and Go microservices within a crucial data pipeline for Guardium Insights.
- Leveraged ReactJS, AngularJS, and NodeJS to develop responsive components and features for the Guardium Insights frontend.

Projects

Cryptofolio 🔄

Web application

CRYPTO-CURRENCY INVESTMENT PORTFOLIO TRACKER

- Allows users to track their crypto-currency investments over time through various metrics.
- Fetches live pricing data through the use of web sockets.

Lunch Roulette 🔄

Web application

HELPS USERS DECIDE WHERE TO EAT FOR LUNCH

- ExpressJS backend calls the Yelp API to find restaurants close to the user based on the configured distance on the ReactJS UI.
- Randomly displays one restaurant at a time so that the user feels less overwhelmed by options.

Kiosk (DeltaHacks IV Winner) 🔄

Chrome extension

CRYPTO-CURRENCY/BLOCKCHAIN NEWS AGGREGATOR DASHBOARD

- User is shown latest news in the form of interactive cards each time they open a new tab.
- Cron job runs at a pre-configured interval that fetches recent news articles and adds them to the list of news available for display to the user.

Education

McMaster University

Hamilton, Ontario, Canada

B.ENG. IN SOFTWARE ENGINEERING

April 2020

- Took multiple data structures and algorithms courses

Skills

Languages Java, Kotlin, Golang, Javascript

Back End Spring, NodeJS, gRPC, SQL, NoSQL, Kubernetes, Docker, Kafka, AWS, Azure, REST APIs, Microservices

Front End ReactJS, AngularJS, HTML, CSS