Nizar Jandal Alrifai

Technical Skills

 $\textbf{Languages:} \ \ Python, \ TypeScript, \ Java, \ Kotlin, \ Groovy, \ C, \ C++, \ JavaScript, \ SQL, \ R$

Web-Dev: Node.js, React.js, Express.js, Knex.js, HTML5, CSS3, Django, Koa.js, REST API, Bootstrap

Other: Git, Jenkins, Docker, Redis, PostgreSQL, MySQL, Jest.js, AWS, CI/CD, Maven, Azure, Gradle, Linux, Jfrog, PCF, Pytest

Experience

Faire May 2022 - August 2022

 $Backend\ Engineer\ Intern$

Waterloo, ON

- Designed and Implemented a migration of Canadian retailers to local currency, This affected all monetary databases and surfaces, which led to an increase of 46% in GMV (Gross Merchandise Value) in the first 14 days
- Led development on 2 critical projects to improve import duties experience for 40k+ retailers across Europe
- Acted as **Directly Responsible Engineer for the projects**. Responsible for collaborating with UX and product partners to scope user stories, onboarding engineers to the project, and **managing the overall execution across multiple Engineering teams**
- Built new APIs for high traffic areas such as Cart and Checkout using Kotlin, MySQL, JUnit, Jersey, and Hibernate

Wealthsimple

August 2021 – December 2021

Software Engineer Intern

Toronto, ON

- Architectured and developed a new company-wide secure database change management system (with Postgres) to eliminate
 unreviewed or fraudulent database changes by removing single point of failure from data handling workflows
- Designed and implemented the backend, schemas and API of the Price-Alerts feature leveraging Koa.js, Knex.js, and Jest.js
- Used TypeScript, Redis, AWS, Datadog to reduce latency across the codebase by 20% and ensure backend systems that support trading are robust, and can scale to massive user traffic and order volume
- Reduced type related errors by 90% in the trade repository, eliminating the chances of type-related critical incidents, through
 executing a major codebase redesign of the main trade service
- Spearheaded Crypto and Trade load testing using automated k6 scripts, to support upwards of 1 million concurrent users

Manulife Financial

January 2021 - April 2021

Waterloo, ON

DevOps Engineer Intern

- Provided continuous development and functional testing on 40+ Jenkins Pipelines used by 500+ employees using Groovy
- Used Node.js and React.js to create internal migration tools decreasing manual labour time by 20%
- $\bullet \ \, {\rm Automated\ onboarding\ tasks\ leveraging\ REST\ APIs\ resulting\ in\ \bf 90\%\ faster\ setup/cleanup\ time\ to\ teach\ employees\ new\ skills}$
- Created new pipelines using CI/CD principles, integrating code quality tools like SonarQube, and pushing Artifactories to Jfrog

Sony Interactive Entertainment (PlayStation)

 $May\ 2020-August\ 2020$

Waterloo, ON

- $Software\ Engineer\ Intern$
 - Worked on the PlayStation 4 Console Store using Python to migrate to new API dependencies to unify logic across platforms
 - Supported world-wide releases of the \$20+ billion yearly console store through integration and regression development and testing
 - Optimized regression test suites to be be 19.83% faster, through code and logic recreation

Projects

UW BluePrint (Canadian Children Book Center team)

Github

Senior Software Engineer volunteer

- Mentored junior developers and collaborated with a team of volunteers to create a website from scratch for the non-for-profit
- Created a review platform, and an admin dashboard for admins to monitor users and reviews utilizing Typescript, React
- Designed a system to integrate an external payment service to allow for user subscriptions of various tiers using Postgres

BusyMaps

DevPost

• Created a real-time platform to visually represent busyness of areas using Google Places API data and a Flask based backend

SeizeControl

DevPost

• Utilized OpenCV, Firebase, Python, to create a Chrome extension to filter seizure-inducing frame in YouTube videos

Education

University of Waterloo

September 2019 - 2024

Bachelor of Applied Sciences in Computer Engineering

Waterloo, ON

- Cumulative Average: 90%, Dean's Honor List (2x terms, top 10/160 students)
- Relevant Courses: Data Structures & Algorithms (100%), Numerical Methods (100%), Systems Programming & Concurrency (98%)