YASH OZA

Computer Science & Business Double Degree, University of Waterloo

yashoza32@gmail.com
linkedin.com/in/oza
github.com/ynoza
ynoza.github.io

Skills

Languages	Python, Java, C, C++, Bash, SQL, ARM, MIPS, JavaScript, HTML5, CSS, TypeScript
Technologies	Docker, Django, AWS, Angular, Spring Boot, Git, TensorFlow, Selenium, React, Node.js, Kubernetes

Education

University of Waterloo | Bachelor of Computer Science – Software Engineering   Sep 2018 – Apr 2023
- o Courses in Algorithms, Data Structures, OOP, Sequential Programs, OS, Graph Theory, AI, Combinatorics

Wilfrid Laurier University | Bachelor of Business Administration – Finance   Sep 2018 – Apr 2023
- o Courses in Financial Management, Accounting, Marketing, Micro & Macro Economics, Entrepreneurship

Technical Experience

Software Engineer | Java, TypeScript, Node.js, Angular, Kafka, Kubernetes, HTML5, CSS   Jan 2021 – Apr 2021
MDA – *MDA Space Missions*
- o Developed REST Endpoints on Triton (a Web Service with a Java backend and a TypeScript Frontend)
- o Leveraged Triton's Microservices architecture by diversifying its use of distributed caching, ranking and allotting resources at runtime based on demand, and generalising my Java Endpoint code to maximize scalability
- o Configured pod affinities in Kubernetes clusters integrated with Docker, Jenkins, and Kafka for better CI/CD
- o Enhanced Triton's Application View in Angular with heuristics like pure piping and lazy loading

Software Engineer | Python, JavaScript, SQL, Django, Docker, Selenium, HTML5, CSS   Jan 2020 – Apr 2020
Blackberry – *QNX Software Systems*
- o Developed a REST API Reservation system in Django that currently has 500+ users
- o Recycled the system's DOM elements in JavaScript to reduce the browser's memory consumption by 21%
- o Increased the speed of the system's Linux toolchain API by 1.5x through SQL optimizations like normalizing tables, selecting essential fields, indexing predicates, and integrating RabbitMQ with Docker
- o Improved Docker's performance with build caching, preloading, and condensing Dockerfiles

DevOps Analyst | Bash, Excel, VBA, Jira, Confluence   May 2019 – Aug 2019
Toronto Dominion Bank – *TD Securities*
- o Automated 40 hours of work per month by periodically scraping through log files via Bash Scripts, auto-generating email notifications, and routinely populating spreadsheets & Graphs with VBA scripts
- o Reduced the time lag between job failure and detection by an average of 4 minutes with Bash scripts that were triggered through historical indicators (events) and scheduled via CronJobs

Related Technical Projects

Traffic Computer Vision: Trained a CNN with TensorFlow to accurately classify road signs for self-driving cars 97% of the time, using OpenCV-Python for image processing and scikit-learn for data organisation

2048: A Nintendo themed version of the hit Game 2048 developed in Java with easier gameplay and cool music

covidFree: A React Web Application that dynamically pulls data from FireBase and allows employers to monitor temperature fluctuations effortlessly as the database is able to seamlessly pull data from personal devices like AirPods