YASH OZA

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Experience

MDA — *MDA Space Missions*

Software Engineer | Java, TypeScript, Node.js, Angular, Docker, Kubernetes, MongoDB   Jan 2021 – Apr 2021

- Engineered 13+ backend features on Triton, a Vessel Management and Navigation System for NATO, in Java Spring Boot using various design paradigms like Observer, Aggregator, Strategy to complement its Microservices architecture
- Implemented 19+ versatile REST endpoints and reduced the latency of 15+ existing endpoints by 17 minutes a day
- Enhanced Triton's Application View in Angular with heuristics like pure piping and lazy loading to reduce its load time by 23%
- Configured pod affinities in Kubernetes clusters and integrated them with Docker and Jenkins for better CI/CD

Software For Love — *Non-profit*

Software Developer | Angular, React, TypeScript, Node.js, MongoDB, HTML5, CSS   Jan 2021 – Sept 2021

- Developed 30+ responsive React components for business clients raising $5000+ worth in donations for charities like True North Aid
- Currently working on a rental marketplace with Angular & Nodejs using a Stripe payment system connected to a MongoDB database

Blackberry — *QNX Software Systems*

Software Engineer | Python, JavaScript, SQL, Django, Docker, Selenium   Jan 2020 – Apr 2020

- Developed a REST API Reservation System in Python based Django with 100+ users that reduced reservation spurred conflicts by 93%
- Recycled DOM elements in JavaScript asynchronously to reduce the browser's memory consumption by 21%
- Increased the speed of a Linux toolchain API by 1.5x through SQL optimizations like normalizing tables and creating stored procedures
- Improved Docker's runtime performance and reduced latency by 38% with build caching, preloading, and condensing Dockerfiles

Toronto Dominion Bank — *TD Securities*

Systems Analyst | Bash, Excel, VBA, Jira   May 2019 – Aug 2019

- Automated 40+ hours of work per month by periodically scraping through log files via Bash Scripts, auto-generating email notifications, and routinely populating spreadsheets with VBA scripts
- Reduced the time lag between job failure and detection by an average of 4 minutes with Bash scripts scheduled via CronJobs

Projects

covidFree : A web app that gives employers the chance to limit covid-19 transmission at work

- Cooperatively created the React Web Application and connected it to Firebase, that is set up to periodically pull temperature data from personal devices – lets employers measure an employee's temperature without testing and risking exposure at work

TrashSort : An android app that classifies trash from images

- Collaboratively implemented the AWS Express.js server & CNN image classifier of the app using numerous open-source datasets on Kaggle, achieving 91% accuracy – Winner of the Best Software Architecture Application of Summer 2021 @ University of Waterloo

Skills

Languages | Python, Java, C, C++, Bash, SQL, TypeScript, JavaScript, MongoDB
Technologies | Docker, Django, AWS, Angular, Git, TensorFlow, Selenium, React, Node.js, Kubernetes

Education

Honours Bachelor of Computer Science & Business Administration Double Degree   Sep 2018 – Apr 2023

- University of Waterloo - Computer Science | Concentration: Software Engineering   GPA: 3.9/4.0
- Wilfrid Laurier University - Business Administration | Concentration: Accounting   GPA: 10.0/12.0