Jhanavi Gera

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Education

University of Toronto **Expected Graduation: May 2024**

BASc in Computer Engineering, Minor in Engineering Business and Artificial Intelligence *Toronto, ON, Canada*

- **Coursework:** Algorithms & Data-Structures, Operating Systems, Computer Networks, Introduction to Databases, Introduction to AI/ML, Computer Security, Software Engineering, Microsoft Azure AI Fundamentals

Experience

Devops Intern, Oracle **September 2022 – August 2023**

PEY/Co-op Intern *Toronto, Canada*

- Collaborated on creating a CI/CD pipeline using TeamCity and GitLab, reducing deployment time by 30%.
- Developed scripts to automate 30+ Maven and Gradle-based Java libraries, improving deployment productivity by 20%
- Led end-to-end deployment of a microservice across multiple data centers, orchestrating Kafka topic creation in Kibana, Docker image and Helm chart distribution, and establishing ELK pipelines for real-time adaptation and monitoring.
- Resolved software and DevOps support tickets, reducing issue resolution time while ensuring seamless functionality.
- Automating build and scan jobs in TeamCity using Ruby and shell scripts.
- Integrated SSL certificate profile provisioning on the F5 automation framework, decreasing provisioning time by 40%.

Software Development Intern, Citi **May 2022 – August 2022**

Equities Department, Citi Summer Analyst Program *Mississauga, Canada*

- Leveraged SQL for trade identification and developed data migration batch job using Spring Boot and Spring Batch (Oracle DB to Couchbase).
- Enhanced code quality by creating JUnit 4 test cases, resulting in a 30% increase in code coverage.
- Set up a CI/CD pipeline for a website with Git, Docker, Jenkins, and Openshift, automating tasks using bash scripts.

Production Engineering Fellow, Meta **June 2021 – August 2021**

via Major League Hacking Fellowship Program *Remote*

- Completed 12 weeks of structured curriculum-based learning in core Production Engineering subjects, complemented by industry expert-hosted events and workshops.
- Developed an open-source web application using Python, Flask, Jinja, MySQL, Nginx, and unittest.
- Implemented CI/CD for automated testing and deployment workflows.
- Established system and container monitoring, alerting, and visualization using Prometheus and Grafana.

Projects

Holiday Planner | *Flask, AWS, Docker, Python, HTML/CSS, Nginx, PostgreSQL, Promethus, Grafana* **Project Link**

- Led a team of 3 using version control systems such as Git to organize modifications and assign tasks in order to build a website that made planning a holiday easy.
- Integrated and containerized the database in order to support the back end development of the application.
- Designed and developed the front end of the application using HTML/CSS and bootstrap.

MLH Fellow Portfolio Builder | *Flask, AWS, Docker, Python, HTML/CSS, Nginx, PostgreSQL* **Project Link**

- Built a simple portfolio website using Python/Flask and deployed it on an AWS instance with an Nginx proxy.
- Implemented PostgreSQL databse and created a REST API to access login and registration endpoints.
- Containerized the app with Docker and integrated CI/CD with GitHub Actions for quick and reliable deployment.
- Implemented cAdvisor to monitor and observe performance characteristics of running Docker Containers on the web app.

Mapper Project | *C++, GTK, Git*

- Optimized run time by 50% and found a path between intersections by implementing the Dijkstra's algorithm.
- Mapped optimal paths for courier deliveries by implementing the Greedy algorithm,
- Researched state-of-the-art design features in order to enhance user experience.

Technical Skills

Programming Languages: Java, Python, C++, Ruby, Bash, C
Web Development: HTML/CSS, Flask, Bootstrap, React, Figma, Android XD, JavaScript, SQL
DevOps: Git/GitHub, Docker, TeamCity, GitLab(CI/CD), Artifactory, AWS, Jenkins, Nginx, Microsoft Azure, cAdvisor, Prometheus, Grafana, Terraform
Tools/Technologies: Linux, Windows, Agile Methodology, Jira, JUnit, Visual Studio Code