Nidhi Ramessur

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Internship Experience

Autonomic LLC | ON, Toronto
Software Engineer Co-op | 09/2022 - 12/2022

- Implemented Kafka consumer services in a large distributed system, improving the connectivity of 1M+ vehicles
- Investigated downtime events and created runbooks that reduced the time required to resolve similar issues by 50%
- Created Prometheus alerts that to ensure that incidents are promptly escalated to the right individuals through PagerDuty
- Conducted high-volume load testing to assess the performance and scalability of services, utilizing Grafana to analyze performance metrics
- Contributed to impactful decision-making by collaborating weekly with the Product Manager and sharing ideas in design meetings

Shareworks by Morgan Stanley | AB, Calgary(Remote)
Full Stack Software Developer Co-op | 01/2022 - 04/2022

- Maintained and enhanced the backend integration of a third-party software feature within a cloud-based equity plan management system.
- Led weekly agile team meetings such as scrum, story time, and other ceremonies, achieving a minimum goal accomplishment rate of 80%
- Developed and implemented customer-requested features which also involved integration with the underlying database
- Investigated 20+ bugs and rolled out fixes to production which ensured high-quality Java code
- Presented demos to showcase team achievements to a panel of 50+ stakeholders, providing valuable insights for decision-making

Shareworks by Morgan Stanley | AB, Calgary (Remote)
Full Stack Software Developer Co-op | 05/2021 - 08/2021

- Designed and implemented a major feature that integrates a 3rd party software in our existing platform using Java while collborating in a highly agile and cross-functional team
- Implemented SQL queries using SQL Developer to handle data in complex relational databases
- Conducted comprehensive backend unit tests and large integration tests to ensure 90-100% test coverage
- Assisted Quality Assurance in creating test suites and defining acceptance criteria to ensure each sub-feature met specified requirements

Ribbon Communications ULC | ON, Ottawa
Cloud Platform Developer Co-op | 09/2020 - 12/2020

- Automated Jenkins infrastructure setup and configuration resulting in 5 min set up (down from 3+ hours)
- Refactored 10+ Groovy scripts to optimize the existing Jenkins CI/CD system, ensuring high-quality code in production
- Developed Kubernetes manifests to create and manage Kubernetes resources including pods and deployments, using Helm charts
- Created JUnit tests to ensure the correctness and validity of the code for Jenkins

Ribbon Communications ULC | ON, Ottawa
Platform Developer Co-op | 01/2020 - 04/2020

- Developed an automated infrastructure based on Ansible to deploy and configure 32 virtual machines across multiple hosts on VMWare platform,
  set up the networking in each VM and exchange SSH keys across all VMs
- Created Ansible scripts to automatically set up ESXi hypervisor on the physical server and set up its networking
- Conducted in-depth research and analysis of automation tools, including Ansible, Terraform, and PowerCLI, to identify the most suitable solution for optimizing our operational efficiency

Projects

Efficient Mobile Application for Student Course Information September 2023 - December 2023

- Developed an Android mobile application that integrates with the University of Waterloo's Open API, allowing students to access and store their UW course information all in one place
- Accomplished successful Jetpack Compose UI integration, dynamic API data fetching, and seamless integration of user input with Firebase Firestore
- Technical Skills Uses: Kotlin, Jetpack Compose, Android Development, UI Design, Backend Development, API Integration

Skills

Java, Spring Boot, Git, Swagger, Python, Firebase, SQL, C++, Kotlin, Docker

Education

University of Waterloo | Waterloo, ON
Bachelor of Computer Science | 12/2023
Relevant coursework: Application Development, Introduction to Database Management, Introduction to Financial Accounting,