KHALID KANA'AN
SOFTWARE ENGINEER

📞 613-867-8218

✉ khalid.kanaan.ca@gmail.com

in https://www.linkedin.com/in/khalid-kanaan-2308b0192/

EXPERIENCE

DevOps Software Developer   Sept 2022 - May 2024

Health Canada   340 Legget Dr, Kanata, ON

- Led research and initial deployment of **Azure Kubernetes Service (AKS)** cluster using **Terraform** and **Azure DevOps**, optimizing resource usage and exploring networking options for seamless connectivity and secure access.
- Researched **Azure Key Vault** and employed **secure files feature** in Azure DevOps pipeline for managing pipeline secrets.
- Configured **Docker** installation in Azure DevOps pipeline to achieve seamless interaction with **Artifactory** Docker registry.
- Enhanced DevOps **Jenkinsfile** template to include Health Canada mandatory elements, specified **agent** types, explained credential retrieval, documented **post-condition blocks**, and integrated logic for **Docker image** cleanup.
- Developed **Bash scripts** set to run periodically via **Jenkins** to back up **MongoDB** databases and delete outdated **volumes**.
- Developed the Health Canada '**JiraCSV Genie**' application using **.NET** framework and **C#**, enabling seamless automation of Jira tasks through user-controlled **PowerShell** script execution and **CSV** generation.
- Led the end-to-end development lifecycle of a **Full-Stack React** application for surveying at Health Canada, utilizing **HAproxy**, **MySQL**, **Node.js,** and **React**.
- Authored the comprehensive Employee and Student onboarding **documentation** within the DevOps Internal **Confluence space**, providing clear guidance for new hires through our organization's onboarding process.

Junior DevOps Engineer   Dec 2021 - Aug 2022

Interac Corp.   1600 Carling Ave, Ottawa, ON

- Wrote the Conceptual Solution Design **(CSD)** for implementing and migrating the internal **Docker registry** to **Artifactory**.
- Developed **Jinja2** templates to generate application configurations and extract **TLS certificates** from the **Ansible vault**, seamlessly integrating them into the operational **Docker containers** of internal applications.
- Utilized **Bamboo** for continuous integration and deployment, automating application deployment to different environments.
- Streamlined deployment processes for internal services by leveraging **Ansible** for containerized deployment, updating **ansible playbooks** to align with company provisioning and deployment standards.
- Transformed internal **Python Flask** MSS web application, leveraging **Consul API** for configuration file ID retrieval and decoding to allow authenticated users to view configuration file contents.

RECENT PERSONAL PROJECT

Educative Cybersecurity Webapp   Sep 2023 - Present

- Currently working on a **Full-Stack** React application for **Cybersecurity** awareness suitable for audience ages 12 and above.
- I am using **React** for the Frontend, **Express** for the backend, and a **MongoDB** database. Can demo app during interview.

EDUCATION

Bachelor of Software Engineering Co-op Option   Sep 2018 - June 2024

Carleton University

SKILLS

Languages: Java, Python, C++, C#, JavaScript, Typescript, HTML, CSS, PHP, C, Bash, PowerShell, Racket, MATLAB, Groovy, SQL, NoSQL

Frameworks & Libraries: .NET, Node.js, Express, React.js, Jest, Angular, Spring Boot, Hibernate, Flask, PyTorch, scikit-learn, virtualenv, PostgreSQL, MySQL, MongoDB, Web Experience Toolkit (WET)

Concepts: Experience with Agile and DevOps Methodologies, CI/CD, IaC, Containerization and Orchestration, Configuration Management, Scripting & Automation, Cloud Computing with Azure, Networking fundamentals, Cryptography, Machine Learning, Object-Oriented Programming, Algorithms and Data Structures, RESTful Design, Cloud Native, UX/UI design

Developer Tools: Git, SVN, GitHub, Bitbucket, Jenkins, Ansible, Terraform, Docker, Kubernetes, Jira API, Confluence API, Docker, Kubernetes, Azure Services, AWS, VS Code, Visual Studio IDE, Eclipse, IntelliJ