Travis Vilac

Telephone: +1 (236)-868-1876 **| E-Mail**: travis@victusconsulting.com **|** LinkedIn **|** GitHub **|** Blog

Skills

Certifications: Certified Kubernetes Administrator (CKA). Certificate ID: LF-sh1dn9gsyb
AWS: Amplify, API Gateway, EC2, DynamoDB, IAM, Lambda, S3
Full Stack Development: Node.js (Express), Python, MongoDB, PostgreSQL, React, Redux
Infrastructure / Monitoring: Docker, Kubernetes, OpenShift Container Platform, Helm, Bash, Dynatrace, Elastic, Jenkins, GitHub Actions, Git, AquaSec, Artifactory, Nexus, UrbanCode Deploy, HashiCorp Vault

Experience

DevOps Engineer, Royal Bank of Canada Mar. 2022 – Present

- Championed Configuration as Code for Kibana watchers utilizing Elastic APIs and templating process for API driven deployments across various environments.
- Containerized and deployed JupyterHub and JupyterLab applications in OCP3/OCP4 utilizing Helios (in house orchestration tool), Jenkins, Artifactory, AquaScan, SonarQube, and UrbanCode Deploy for CI/CD.
- Patched NIST CVE vulnerabilities in images and liaised with stakeholders for rollout strategies.
- Led Proof-of-Concept project for Filestash S3 browser application with SAML authentication that included stakeholders from various teams that included Solution Architects, Identity and Access Management Product Engineers and Security Specialists.
- Implemented centralized logging (with sensitive data filtering) to containerized Filebeat utilizing a mounted volume for persistent storage.
- Spearheaded dashboard-as-code project to standardize and parameterize Grafana dashboard aesthetics by utilizing Python, Bash scripting and Git.
- Created user stories for project backlog with clear and concise story descriptions that outline the problem seen in the production environment, why it's occurring, and the criteria for success.
- Performed live demonstrations of new application features to audiences of various sizes and composition that included stakeholders from various application teams.

Software Engineer, Victus Consulting Inc. (Self Employed) Mar. 2022 – Present

- Developed MERN stack applications with features such as protected API endpoints that leveraged JSON Web Token (JWT) authentication for user verification.
- Created Containerized Jenkins with Jenkins jobs to pull from GitHub and build JupyterLab application.
- Munged and wrangled data with over 30,000 unique entries provided by the client to remove erroneous values and improve usability for analysis.
- Created project requirements and scope of work based on assessment of client's needs. Provide quotations for services prior to solution implementation.
- Conducted client meetings to provide status updates and gather feedback for integration into projects.

Energy Specialist / Manager Positions, Simon Fraser University Nov. 2017 – Mar. 2022

- Created scopes of work and business cases for greenhouse gas reduction and energy conservation projects that consistently achieved a simple payback period of 7 years or less while outperforming the institutional hurdle rate.
- Ensured compliance with the BC Carbon Neutral Government mandate by monitoring and reporting campus greenhouse gas emissions, while also securing incentive funding for achieving verified reductions in natural gas and electricity consumption.
- Streamlined compliance reporting for the City of Burnaby by automating workflows using VBA in Excel, significantly reducing the response time for reporting from days to hours.
- Promoted from Energy Specialist to Manager of Inspection and Maintenance in June 2020, where responsibilities shifted to developing and administering the preventative maintenance planning for a portfolio of physical assets valued at approximately $1 billion.

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Experience (Continued)

Service Technician, Control Solutions Ltd. Oct. 2016 – Oct. 2017

- Provisioned the server hardware required for the WebCTRL Building Automation System.
- Collaborated with third-party vendors to integrate building automation systems with their proprietary systems, utilizing BACnet and Modbus protocols.
- Maintained and upgraded hardware and firmware on Automated Logic and Reliable Controls brand building automation controllers.
- Refactored existing code base to improve operational efficiency of the heating and ventilation systems by an average of 15%.
- Automated weekly building automation server backups during non-peak hours using Windows Task Scheduler and Bash scripts.

Team Leader - Commissioning, Control Solutions, Ltd. Sep. 2012 – Feb. 2016

- Designed automated programs for detecting and diagnosing faults in mechanical equipment, improving commissioning outcomes and reducing fault detection response times and associated downtime.
- Developed comprehensive performance monitoring documentation and standard operating procedures to improve commissioning of building automation systems, enhancing team efficiency and productivity.

System Designer, Control Solutions, Ltd. Jun. 2010 – Sep. 2012

- Designed and programmed building automation systems for a variety of projects (including retrofits and new build), using proprietary programming languages such as Control-BASIC or Eikon Logic Builder.
- Conducted thorough peer reviews of code to ensure compliance with client's job specifications, paying close attention to code quality, readability, maintainability, and performance.

Education

Simon Fraser University, Graduate Diploma, Business Administration Jan. 2019 – Dec. 2021

- Performed linear regression and ANOVA on maintenance data to look for trends of statistical significance and determine leading causes for work order cancelation. Results were presented to C-Suite stakeholders as part of the maintenance department’s 5-year plan.

BCIT, Bachelor of Technology, Electronics Jan. 2011 – Oct. 2016

- Developed and implemented a capstone project to refactor the programming for ventilation equipment at a shopping center to improve operating efficiency. Energy savings from the changes resulted in an estimated savings of $10,000 annually.