Jonathan Ng

Systems Design Engineering // University of Waterloo

j6n.work@gmail.com
linkedin.com/in/j6n
jng.ca

Skills

Tools

Ansible, ArgoCD, AWS, Azure, Bitbucket, Confluence, Datadog, Docker, Git, Google Cloud, Grafana, Graylog, Heroku, Jenkins, Jira, Kubernetes, Redis, Terraform, VictoriaMetrics

Languages

Bash, CSS, Golang, Groovy, HTML, Java, JavaScript, Python

Experience

SRE II // Tempo Software   Jan 2022 - Present

- Designed and developed a system enabling developers to deploy fully-scoped ephemeral environments for feature testing
- Joined initiative as developer to refactor our in-house auth product and move towards leveraging service as a single source of truth
- Implemented support for feature flags (LaunchDarkly) on auth service
- Migrated and updated legacy IaC to provision deployments alongside k8s services in modularized fashion
- Simplified dependency management of docker images by implementing asdf
- Coordinate and migrate company packages, respositories and CI from Gitlab to Github
- Directed the knowledge-sharing process for onboarding new team hires
- Coordinated the deployment of SentinelOne across legacy and k8s infrastructure
- Refactored release pipeline to more align with GitOps strategy

Junior DevOps // TimePlay   Apr - Dec 2021

- Used Ansible to manage scaling game infrastructure on AWS for a projected 700% increase in player base
- Deployed infrastructure using Amazon's API Gateway, Lambda and ECS to reduce resource spin up times 93%, down to 30 seconds for new projects, requiring on-demand resources
- Implemented GitOps practices and continuous deployment to Jenkins pipeline, automating deployment of changes to respective environments
- Created CI/CD pipeline for Unity projects using Unity Cloud Build to leverage tailored support and integrations

DevOps Cloud Developer Intern // Cryptonumerics (acquired by Snowflake)   Sep - Dec 2019

- Designed an OAS dataset retrieval API between the product and popular cloud storage solutions
- Refactored Spectron testing suite, improving test consistency and cutting test time down from 90 to 10 minutes
- Used Google and Segment Analytics to increase interaction coverage by 30%

Innovation Engineer Intern // VIA Rail Canada   Jan - Apr 2019

- Developed remote analytics solution using Kibana to monitor train health and activity, enabling engineers to diagnose issues in real-time
- Developed a Bash script to automate setup of analytics solution across a scalable fleet of train cars
- Applied beacon technology to map customer journeys through a train station through cellphone pings

DevOps Engineer Intern // TD Bank   **Sep - Dec 2017, May - Aug 2018**

- Generated a daily health report by compiling Jenkins Build Scan and SonarQube results using Groovy

- Coordinated migration of over 80 projects from several outdated instances of Jenkins, creating a workflow to mitigate 90% of manual effort

- Designed an experimental shared library system to streamline the continuous integration pipeline on Jenkins for over 20 project teams

- Administrator over Atlassian Toolstack providing support and provisioning user access across all cloud platforms

Backend Engineer Intern // Rave.io   **Jan - Apr 2017**

- Upgraded video service from PostgreSQL to Google Cloud Datastore to improve consistency of transactions

- Refactored location microservice, reducing Redis queries by 50%

Projects

Pomodoro Web App   **May 2023 - May 2023**

- A customizable pomodoro timer project to learn React

Personal Discord Bot   **Jan 2021 - Present**

- Leveraged Epic Games API to notify about free games on a scheduled basis

- Leveraged various game APIs to return information and stats for players in various games

- Leveraged Open Movie Database API to return movie data in conjunction with regular hosted movie nights

Luxify Restock Notification Service   **Sep 2020 - Feb 2021**

- A Facebook bot service notifying users on restocks of elusive luxury items via scraping store APIs