Daniel Wierdsma

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Development Experience

🖥 **Back End**   • Python, Go, Node.js

🗄 **Databases**   • RDS, MongoDB, PostgreSQL, MySQL, CloudSQL, DynamoDB, Redis

⚙ **DevOps Tools**
• Bash, Git, Prometheus, Thanos, Grafana, Loki, Tempo, Istio, GitLab CI, Github Actions, NGINX
• Kubernetes, Docker, ArgoCD, Cloudflare, Terraform, Helm, kOps, Teleport, Skaffold, KinD

🐧 **Environments**
• AWS: EC2, EKS, ECS, VPC, IAM, Route53, S3, Lambda, Cloudformation, etc.
• Azure: AKS, ABS, DNS, Azure Cache for Redis, etc.
• GCP: GKE, KMS, GCS, StackDriver, GCE, Pub-Sub, etc.

📒 **Fundamentals**   • Microservices, GitOps, CI/CD, Serverless Applications, Agile Development

Work Experience

Site Reliability Engineer II at *Mattermost*   May 2022 to May 2023

○ Rearchitected Mattermost production services to be managed in a fully GitOps way with ArgoCD.

○ Upgraded and maintained select Mattermost services such as Teleport, Cluster Autoscaler, and ArgoCD.

○ Productionalized Mattermost's Community installation to be more reliable, observable, and maintainable.

○ Maintained over 10,000 production Mattermost installations within Kubernetes.

○ Led discussions on how to turn internal tools to be more cloud-native and host them within Kubernetes environments.

○ Participated in a weekly on-call rotation to respond to production level alerts and quickly resolve issues.

DevOps Engineer at *Daylight*   May 2020 to May 2022

○ Planned migration of AWS services to Azure-hosted Kubernetes for all Daylight environments.

○ Designed architecture and deployment strategies for new Kubernetes environments.

○ Implemented and supported a new environment for Shoppers Drug Mart Covid-19 testing and vaccination forms to handle heavy load.

○ Migrated existing cloudformation troposphere scripts to Terraform to manage all new environments.

○ Maintained existing, and created new AWS-hosted environments with resources including EC2, ECS, VPC, Route53, Cloudfront services.

DevOps Engineer at *Tulip Retail*   January 2019 to April 2020

○ Built CI/CD frameworks for internal projects and all serverless applications through use of GitLab CI that automatically tests and deploys new changes.

○ Setup monitoring solution of GCP services leveraging Prometheus, Thanos, Grafana, and Alertmanager.

○ Developed new metric exporters & dashboards to receive more granular information around Tulip's internal systems, and configured alerts to warn teams of potential outages across the system.

Conference Speaker at *AWS Summit Toronto 2019*   October 2019

As a conference speaker in the Start-up Booth at AWS Summit Toronto 2019 I presented my **SFTP Automation design** that solves the problem of manual easing work on existing SFTP Virtual Machine instances. This was achieved by leveraging many tools such as Transfer for AWS, Lambdas, DynamoDB, and SQS functionality.

Education

University of Waterloo   Graduated in 2018
Bachelor of Computer Science, Computer Science, Honours, Co-operative Program

Currently Reading
Kubernetes Best Practices by O'Reilly, *Cloud Native DevOps with Kubernetes* by O'Reilly, and *Refactoring* by M. Fowler & K. Beck