

Max Hynes

Data Systems & Software Developer

Greater Vancouver Area, British Columbia

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Technologies and Languages

Languages

TypeScript/JavaScript, SQL, Apollo GraphQL, PHP, HTML, CSS, Go, Java, C++ (Embedded), Linux Shell, Bash, Git, IX Politics

Platforms & Frameworks

Node.js, Nginx/Apache, Gin, Postgres, MySQL, Docker/Kubernetes, Git, Proxmox(QEMU)/LXC, ESXi, BGP, OpenVPN & Wireguard, Jenkins/Atlassian Bamboo, JIRA/Linear, Confluence

Cloud Infrastructure

QEMU/LXC, Docker/Kubernetes, Terraform, AWS (EC2, S3, Route 53), GCP Compute

Work Experience

Data Systems Engineer

Grin Technologies Ltd. (Vancouver, BC)

Jul 2019 - Current

- Developed automation tools in Go, maintaining our customized internal documentation service in PHP.
- Oversaw internal and external IT infrastructure utilizing IaaS, PaaS, and cloud technologies, including monitoring and response to novel security threats.
- Engineering and configuration of enterprise switch/router architecture
- Managing new internal information technology projects and supporting existing deployments.
- Various Power-Electronics engineering tasks out of interest.

Site Reliability and Network Operations Technician

Zulu Technology Ltd. (Vancouver, BC)

Sep 2016 - Jan 2021

- Deployed a new Autonomous System Number(ASN), acquired and facilitated new public IPv4 & IPv6 address allocation from ARIN, and advertised the space over BGP(198.140.182.0/24 - AS64265).
- Facilitated inspection and maintenance of Refrigeration, Mechanical, and Electrical(Redundant UPS, Generator, ATS) systems.
- Collaborated with the network engineering team in developing scalable and reliable network infrastructure.
- Provisioning and configuration of hypervisors for use in virtualized hardware clusters.

Technician II (Temp. Contract)

HEABC Inc. (Vancouver, BC)

Feb 2018 - Apr 2018

- Network infrastructure configuration.
- Physical network switch, server hardware, and network security appliance racking and provisioning.
- Datacenter network run installation & cable management.

General Technician - Freelance

Kron Technologies Inc. (Burnaby, BC)

Dec 2016 - Jan 2018

- Initial production and QA testing of the Chronos 1.4 High-speed camera.
- Worked directly with the founder and senior engineering team in a startup environment.

Projects

Volunteer and Personal Projects

- **BARQ.app** - Actively involved in backend API feature development written in Typescript & GraphQL on top of Node.js & Postgres and with infrastructure deployed via Terraform through AWS & GCP. *This project involves collaborating with a distributed international team.*
- **Delegram** - A Telegram Messenger client that persistently caches all received messages and then notifies the user when another party triggers a message deletion while maintaining a complete message history.
- **Segment 44 V4 BGP Subnet (44.31.10.0/24)** - Actively advertising a 44/8 IPv4 subnet under my own ASN to reduce the costs of serving my own personal projects and services. (Webservers, remote backups, inventory, forums, image/media shares...)
- **Twilight Forest** - A Minecraft Java Mod that adds an additional exploitive dimension to the game. I was responsible for building automated codebase testing/building by deploying and maintaining a Ci/Cd toolchain, using Atlassian Bamboo.