

JORDAN HEINRICHS

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Skills

- **Languages:** TypeScript/JavaScript, C++, Rust, Python, SQL
- **Cloud & Infrastructure:** AWS (Terraform HCL, CDK, Fargate), Docker, Serverless
- **Databases:** PostgreSQL (>1 TB optimization), MongoDB (Cross-region scaling)
- **Front-End:** React, Svelte, Tailwind
- **DevOps & Security:** CI/CD (GitHub Actions), SOC 2 Compliance, Auth0, Datadog

Work Experience

Validere Inc., Calgary

October 2022 - Present

Technical Lead Manager

March 2024 – Present

- Architected and deployed a secure customer plugin interface using Rust and Wasm, creating a sandboxed production environment for third-party code execution.
- Led the technical initiative to achieve SOC 2 compliance across all services, implementing rigorous infrastructure-as-code security policies and process enforcement.
- Upskilled the engineering organization by establishing strict code review protocols and architectural standards, significantly reducing technical debt.
- Directed the research and implementation of innovative product features, bridging the gap between complex backend constraints and product requirements.

Team Lead

May 2023 – April 2024

- Designed and implemented a scalable PostgreSQL schema handling >1 TB of data, optimizing specifically for slowly changing dimensions and high-throughput queries.
- Architected cloud-native application features, overseeing the transition from legacy systems to modern, containerized deployments.
- Owned the operational support and deployment lifecycle, ensuring high availability and rapid incident response.

Senior Software Developer

October 2022 – May 2023

- Scaled the platform from MVP to a core enterprise product by implementing a serverless architecture to auto-scale with variable load.
- Engineered high-performance back-end REST APIs using Node.js and Express, focusing on low-latency data processing.
- Managed the entire AWS infrastructure provisioning using Terraform, integrating Datadog for real-time system observability.

Arterys Inc., Calgary

June 2018 - October 2022

Software Developer

- Researched and implemented complex C++ algorithms for cardiac MRI analysis, directly improving the speed and accuracy of medical diagnostics.
- Built a cloud-native medical imaging application using Vue, AngularJS, and Node.js, ensuring FDA-compliant performance standards.
- Deployed and managed scalable MongoDB clusters and AWS ecosystems across multiple geographic regions to ensure low-latency data access.
- Mentored junior developers on C++ best practices and system design patterns.

Hitachi ID Systems, Inc., Calgary

May 2016 - June 2018

Intermediate Software Developer

- Modernized the front-end interface of a legacy ID management system using Angular and TypeScript.
- Maintained and optimized critical C++ and MSSQL Server components for high-security enterprise environments.

Lockheed Martin CDL Systems Ltd., Calgary

May 2014 - Aug 2015

Software Developer Intern

- Engineered interface software between diverse UAV flight control protocols using C++ and QT, adhering to strict Domain Driven Design (DDD) principles.

Education

BSc, Electrical Engineering, minor in Computer Engineering 2011 - 2016

- University of Calgary
- GPA: 3.9/4.0 cumulative

Hobbies

- **Endurance Athlete:** 2019 Boston Marathon finisher (2:37:16 PR).
- **Mountaineering:** Summited Cotopaxi Volcano (5897 m) and ski-mountaineered Mount Columbia.