

CHRISTOPHER MCDONALD

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Executive Summary

Currently leading the product fulfillment and automation team at sherpa° for 3+ years — looking to **join a team building high-impact products for users and to move into engineering management.**

Technical Skills

Programming: Typescript, Node.js, C#
Databases: SQL, MongoDB, Firestore, Datastax
CI/CD: Gitlab, Azure DevOps, Github Actions
Infrastructure: AWS (*Solutions Architect Associate Certified* — 2020), GCP, Kubernetes, OpenShift, Terraform, Docker, Chrome Extension (MV3), Firebase

Work Experience

Senior Software Engineer, sherpa°

July 2021 - Current

- Scaled an automated product fulfillment automation system from **100s to 10,000s** of monthly orders using **Node.js, Cloud Functions, Firebase and Terraform**
- Built a chrome extension with **React** to assist in manual fulfillment which **increased speed by 400% for the entire operations team**
- Lead the development of a new inbound email system to **process 10,000s of monthly emails** from governments for automation, **replacing multiple unreliable vendors**
- Migrated over ten repositories hosting hundreds of functions to a single mono-repository
- Refactored code into templates to enhance development speed and quality for hundreds of Typescript functions used by a team of engineers
- Designed and implemented a CI/CD pipeline to lint, audit, unit test, **deploy, live integration test and release hundreds** of functions automatically
- Analyze and **monitor hundreds of thousands of logs** monthly to improve system stability and uptime
- Created the **company's first on-call initiative** process to stabilize product development and maintain stability throughout the company

Senior Software Developer, Konrad Group

Oct 2019 - July 2021

- Built an ingestion API using Node.js, Docker and OpenShift for financial fraud analysis that scaled to **millions of records ingested per month**
- Led a client in **migrating to an OpenShift/Docker infrastructure deployment strategy** from manual Windows server deployments
- Launched an internal Typescript/Node.js/Postgres/React project template to collaborate on and speed up kicking off new projects
- Presented company-wide lectures **on Kubernetes, Docker, monorepos and security**
- Launched the **mentorship** program to motivate and foster new hires, **personally mentoring 3** new hires

Software Engineer, Microsoft

June 2018 - Oct 2019

- Adopted and **improved a system which kept millions of customers' payment options current and functional**
- Worked on ASP.NET internal admin tools, on-call initiatives, C# APIs, and various other systems

Education

McMaster University, Software Engineering & Management

Class of 2018

- Participated in a Yale Hackathon, DeltaHacks II (hackathon), McMaster Programming Competition 2015, McMaster Engineer Competition 2015 & 2016