

Work Experience

Software Engineer ([DecideAI](#)) Remote Sep 2024 – Mar 2025

- ◇ Performed data migrations for small businesses as they migrated between different applications.
- ◇ Created an email verification system using Python.
- ◇ Added salts generated using a CSPRNG (cryptographically-secure pseudorandom number generator) to credentials in a Rust project.

Software Engineer ([ODIN Consultants Inc.](#)) Mississauga, ON, Canada Apr 2022 – Sep 2024

- ◇ Designed and implemented chemical management software in Java and deployed it to a private cloud.
- ◇ Performed data migrations for small businesses as they migrated between different applications.

Senior Software Engineer ([Freedom Financial Network](#)) Tempe, AZ, USA Apr 2021 – Apr 2022

- ◇ Created a configuration-based fee schedule in [Go](#) to permit modifications without engineering involvement.
- ◇ Added LaunchDarkly feature flags across development, staging, and production environments.
- ◇ Added health and performance metrics to Grafana dashboards using Prometheus.

Software Engineer ([ODIN Consultants Inc.](#)) Mississauga, ON, Canada Jan 2020 – Apr 2021

- ◇ Performed data migrations for small businesses as they migrated between different applications.

Software Engineer III ([Credit Karma](#)) San Francisco, CA, USA Apr 2018 – Dec 2019

- ◇ Created a hashed persisted queries solution for use within a [GraphQL](#) microservice using [TypeScript](#).
- ◇ Assisted in the migration of the GraphQL gateway to Google Cloud and then later Kubernetes.
- ◇ Provided guidance to developers on other teams looking to add GraphQL support to their services.
- ◇ Deployed newer versions of the GraphQL gateway using blue-green deployments.
- ◇ Added health and performance metrics to Grafana dashboards using InfluxDB.

Software Engineer ([Clara Lending](#)) San Francisco, CA, USA Dec 2016 – Oct 2017

- ◇ Implemented mortgage operation logic using [Scala](#), [Thrift](#), and [PostgreSQL](#).
- ◇ Added workflow tasks to improve loan officer efficiency during document upload and review.
- ◇ Added database migrations using ActiveRecord from Ruby on Rails.

Software Engineer ([Paymentus](#)) Richmond Hill, ON, Canada Feb 2016 – Dec 2016

- ◇ Implemented customer information file readers and report writers using [Java](#), and [Oracle](#).
- ◇ Added the ability to concatenate an insert to an encrypted bill using a PDF-editing library.

Software Engineer ([Terapeak](#)) Toronto, ON, Canada Feb 2014 – Jul 2015

- ◇ Created a standalone server for account deletion using [Java](#) and [PostgreSQL](#).
- ◇ Implemented [RESTful](#) services in [Java](#) for storing notes, account cloning, and account deletion.
- ◇ Implemented a preliminary part of a data ingestion tool in [Scala](#) for [ETL](#).
- ◇ Created [Python](#) scripts to correct erroneous database entries.

Software Engineer ([travl](#)) Toronto, ON, Canada

Apr 2012 – Feb 2014

- ◇ Implemented note-keeping for itinerary locations to help direct trip attendees.
- ◇ Used the [Expedia API](#) to populate point of interest data for itineraries.
- ◇ Created a calendar front-end to assist users in planning their trips.

Engineer ([Qualcomm Innovation Center](#)) Boulder, CO, USA

Sep 2010 – Apr 2011

- ◇ Improved the [UI](#) for [Android continuous integration \(CI\)](#) jobs using [GWT](#).
- ◇ Developed a method to capture [Android dmesg](#) logs, reducing triage effort by 20%.
- ◇ Created a system to automatically fast-forward [git](#) branches to test potential releases.

Co-op Work Experience

Interim Engineering Intern ([Qualcomm](#)) Boulder, CO, USA Jan 2009 – Apr 2009 and Sep 2009 – Dec 2009

- ◇ Improved [CI](#) by 25% by creating scripts to perform automated data calls.
- ◇ Automated power-collapse (sleep) tests for [Android](#) devices, improving [CI](#) by 33%.
- ◇ Designed local [git](#) caching on build resources, halving file transfer times.

Software Developer Co-op ([Sybase Canada](#)) Waterloo, ON, Canada

May 2008 – Aug 2008

- ◇ Measured the impact of compiling database binaries using successive compiler versions.

Junior Software Engineer ([Aviya Technologies](#)) Mississauga, ON, Canada

Sep 2007 – Dec 2007

- ◇ Created an aircraft engine simulation converter (from [FORTRAN](#) to [C++](#)).
- ◇ Developed a test-case interpreter that ran tests on circuit boards simulating engines.

Release Management Coordinator ([Redknee](#)) Mississauga, ON, Canada

Jan 2007 – Apr 2007

- ◇ Halved release notes turnaround time to one hour by creating a developer [UI](#) using [AJAX](#) & [JSP](#).

Technical Support ([Tennis Canada](#)) Toronto, ON, Canada

May 2006 – Aug 2006

- ◇ Designed and implemented a simple online order form using [HTML](#) and [ASP.NET](#).

Education

Bachelor of Software Engineering ([University of Waterloo](#)) Waterloo, ON, Canada

Sep 2005 – Apr 2010

- ◇ [Advanced Algorithms](#)
- ◇ [Distributed and Network Computing](#)
- ◇ [Compiler Construction](#)
- ◇ [Computer Security and Privacy](#)
- ◇ [Real-Time Operating Systems](#)

Skills

[Rust](#), [Go](#), [Java](#), [Python](#), [C++](#), [Scala](#), [Linux](#), [macOS](#), [bash](#), [git](#), [vim](#), [IntelliJ](#), [Eclipse](#)

Projects

Disconnect

- ◇ Implemented a preliminary website for disconnect.me in 2011.

Open Source

- ◇ Contributed packages and issues to [Homebrew](#) for [macOS](#).
- ◇ Contributed to a [Dwarf Fortress game utility](#).
- ◇ Contributed [patches](#) to [Mozilla Firefox](#).