

Full-stack software developer with over ten years of experience building and maintaining systems for energy analysis, research, healthcare, finance, and cloud-computing. I have strong communication skills, hard-won technical judgment, and leadership experience in recruitment and anchoring workplace learning.

I want to work on software that **fight climate change**, empowers people, and eliminates toil. My ideal team values **equity, initiative, and rigour**.

Skills

Technical

- **Full stack Software Development** and **Data Engineering** with many technologies, including:
 - Python (with Django), C# (with ASP.Net Core), NodeJS, TypeScript, Go and Rust on servers, serverless functions, and edge devices.
 - HTML, CSS, JavaScript, TypeScript (including React) and Elm in the browser.
 - Data pipelines with Python, SQL, Luigi, Kafka, and Excel.
 - Schema design and data analysis with Postgres, Snowflake, DynamoDB, BigQuery, SQLite, MSSQL, and Oracle.
- **Evaluating technologies** and recommending solutions that balance complexity, cost, scale, and performance.
- Running applications on **cloud infrastructure** (including VMs, hosted databases, object storage, cloud functions, and message queues on AWS, GCP, and Azure).
- Application observability and instrumentation with OpenTelemetry.
- Whole system **debugging** and **performance profiling** of web apps and data pipelines.
- Developing and deploying applications with **Docker**; managing development environments and dependencies. Collaborating with **Git** and software forges (such as GitHub and GitLab).
- Managing **internal services** such as package registries, GitLab, CI workers, web applications, batch jobs, and deployment pipelines.

Communication, Leadership, & Mentoring

- Working with **domain experts** to **scope, design, execute, and validate** software projects.
- Writing useful, accessible **technical documents** (documentation, design records, etc.).
- **Mentoring** and **onboarding** colleagues; leading **workshops** and **trainings**.
- Fluent in English (native) and French (conversational)

Selected Work Experience

Wavvest (agentic financial planning startup)

Tech Lead, Jan 2026 — April 2026 (laid off)

Remote

- Led a rotating team of 4–5 contractors building an **LLM-powered financial planning agent**, managing a **devops vendor migration**, and maintaining 20+ live services.
- **Administered AWS environments** and **wrote technical policy** for developers and agents.
- Designed and implemented a **data aggregator** (schema, server, tests, and migrations) to unify data access for the planning agent.

Barnacle Systems (marine IoT/Edge compute)

Senior Software Developer II, May 2025 — October 2025 (laid off)

Victoria, BC

- Led a **data migration** from Firebase RealtimeDB to Google BigQuery **reducing storage costs by over 95%** and enabling offline analytics queries.
- Developed and debugged **Firebase Functions** and **on-device edge software** to support remote monitoring features for recreational and government customers.

Robots and Pencils (digital product agency)

Principal Software Developer, August 2021 — May 2025

Remote (Headquartered in the USA)

- Delivered projects for diverse clients in education, finance, wellness, and telecommunications.
- Developed and optimized **legacy systems**, such as reducing batch processing times by 90% for an education SaaS as they on-boarded one of the largest school districts in the US.
- **Interviewed and made hiring recommendations for dozens of candidates** for senior software development roles, both on behalf of clients and for Robots & Pencils.

Powerex (public utility energy trading)

Software Developer, March 2019 — October 2019 (Contract) &
Senior Software Developer, September 2020 — August 2021

Vancouver, BC

- Fixed performance bottlenecks **yielding improvements of up to 35x** in batch data processing.
- **Built data platform infrastructure** to support energy traders, including a data quality system, an internal Python package registry, and reproducible Jupyter environments.

British Columbia Centre for Excellence in HIV/AIDS (bio-informatics)

Software Developer, April 2017 — March 2019 (Contract) &
November 2019 — September 2020

Vancouver, BC

- Designed and built a **bio-informatics database** for drug resistance research, gathering and normalizing Hepatitis C virus genomes and clinical histories from international research partners.
- Contributed usability and performance improvements to **critical laboratory tools** that provided important treatment recommendations to hundreds of people and tracked new strains of drug-resistant viruses, decreasing task times and error rates for lab and data technicians.
- **Owned internal developer platform** including GitLab server and CI/CD runners; drove adoption of code review and automated testing workflows across the research engineering team.

Siaras (cloud platform startup)

Junior Software Engineer, January 2016 — January 2017 (laid off)

Vancouver, BC

- Contributed to a Python and OpenStack based **cloud platform**, including integrating with third party APIs such as **AWS** and **Azure**; hunted bugs across multiple microservices.
- Developed **demos** to show off the system's multi-cloud capabilities.
- Automated deployments using **Ansible** and built Python packages for distribution.

Education

McGill University, BSc.

2006—2011

Montreal, QC

Major: **Physics**; Minors: **Math, English Lit.**

Dalhousie University, incomplete MSc. (all-but-dissertation)

2012—2015

Halifax, NS

Major: **Atmospheric Science**