Christopher **Porter**

SOFTWARE ENGINEER

Vancouver, BC, Canada

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Summary

An accomplished **Full-Stack Software Engineer** and **Technical Leader** with 20 years of experience in designing, building, and scaling complex software systems. Drives strategic technical direction, leads high-performing teams, and translates product requirements into robust solutions. Passionate about using software to solve important problems.

Technologies

Languages	Python, TypeScript, Node.js, Java, R
Databases	PostgreSQL, MySQL, Redis, Cassandra
DevOps & Cloud	Terraform, Docker, OpenTelemetry, AWS, GCP, Datadog, PagerDuty

Experience

Uplight
Vancouver, BC, Canada

SENIOR SOFTWARE ENGINEER
October 2021 - Present

- Led technical work on energy analytics products, using **Databricks and Spark** to derive insights from large datasets.
- Functioned as a key capacity engine, individually closing a third of team story points and increasing team velocity by 50% through hands-on **pairing and mentorship** of junior engineers.
- Reduced PagerDuty alerts by 90% by leading a working group to standardize incident management.
- Drove critical cloud migration efforts, successfully transitioning infrastructure and services for key projects from AWS to GCP.

Thrive Health
Vancouver, BC, Canada

TECHNICAL LEAD
December 2017 - October 2021

- Led and mentored **6 direct reports**, responsible for foundational infrastructure and strategic technical direction.
- Scaled critical APIs for the Canada COVID-19 app to support **millions of users**.
- Architected **access control lists**, ensuring robust privacy and preventing data breaches for sensitive health data.
- Developed a scalable event tracking system that maintained data residency in Canada and provided vital insights to public health officials.
- Improved team processes by facilitating retrospectives and 5 Whys sessions, fostering continuous improvement.

Clir Renewables
Richmond, BC, Canada

TECHNICAL LEAD
April 2017 - November 2017

- Led a team of 3 software developers in building a wind farm analysis tool (**Python** backend, **React** frontend).
- Established core infrastructure, including a build server, user tracking, and secure secret management.
- Optimized **AWS** deployment by restructuring security groups, IAM roles, and VPC subnets.
- Migrated time-series data from Elasticsearch to Redshift, significantly improving data reliability and query speed.

Pulse Energy (Acquired by EnerNOC then Yardi)
Vancouver, BC, Canada

PRINCIPAL SOFTWARE ENGINEER
September 2008 - April 2017

- Designed and built a time-series database in Java using **Cassandra**, managing terabytes of smart meter data.
- **Patented an algorithm** for forecasting energy consumption based on historical conditions and weather data.
- Automated cloud infrastructure provisioning in EC2 using Chef recipes.
- Established a comprehensive monitoring stack (Logstash, Kibana, Graphite, Statsd, custom Graphiti-fork).
- Managed technical recruiting processes, including designing and evaluating coding challenges.

Business Objects (Acquired by SAP)
Vancouver, BC, Canada

SOFTWARE DEVELOPER
July 2006 - September 2008

- Developed server-side components in C++ and Java.
- Feature owner of licensing technology and Java container server.

Personal Projects

Spellie   *February 2022*
- Created popular Wordle clone with over 15,000 daily users.
- Kept design simple, with Alpine.js for rendering suppport, GitHub hosted content, and Amplitude for user tracking.

EV Accessibility Map   *April 2024*
- Analyzed electric vehicle charging station data to assess highway accessibility.
- Leveraged GeoPandas, Jupyter notebooks, and Kepler.gl to visualize geospatial data.

Education

University of Waterloo   *Waterloo, ON, Canada*

BACHELOR OF SOFTWARE ENGINEERING   *September 2001 - June 2006*
- Dean's Honours List
- Valedictorian