Christopher **Porter**

SOFTWARE ENGINEER

Vancouver, BC, Canada

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Technologies

Languages	TypeScript, Python, Java, R
Databases	Postgres, Redshift, Cassandra, Mysql, Redis, Elasticsearch
DevOps	Docker, Terraform, Logstash, Datadog, StatsD, AWS CLI

Experience

Thrive Health   *Vancouver, BC, Canada*

TEAM LEAD   *December 2017 - Present*

- Managed and mentored up to 6 direct reports on the Platform team.
- Ensured the Canada COVID-19 app could scale to millions of users.
- Wrote Terraform configuration for new AWS infrastructure.
- Represented engineering on the leadership team and set strategic goals.
- Designed and built many of our backend systems with a focus on performance, security, and scalability, including:
  - Access control layer to ensure the privacy of health data
  - Consistent search APIs for providing quick access to FHIR data
  - Asychronous job processing for long running requests
  - User event tracking and enrichment pipeline for analytics
  - Transcoding service to convert videos and extract thumbnails

Clir Renewables   *Richmond, BC, Canada*

TECHNICAL LEAD   *April 2017 - November 2017*

- Lead 3 software developers creating a wind farm analysis tool with a Python backend and React frontend.
- Responsible for architecting the system, mentoring junior developers, and writing code.
- Setup infrastructure including a build server, user tracking, and secret management.
- Restructured the AWS deployment, defining security groups, IAM roles, and VPC subnets.
- Migrated time-series data from Elasticsearch into Redshift for reliability and speed.

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

PRINCIPAL SOFTWARE ENGINEER   *September 2008 - April 2017*

- Created a time-series database in Java using Cassandra to store terabytes of smart meter data.
- Designed a tariff engine in node.js for modeling energy costs.
- Handled technical recruiting for new developers, including managing the coding challenge.
- Wrote Chef recipes to provision our cloud infrastructure in EC2.
- Setup a monitoring stack using Logstash, Kibana, Graphite, Statsd, and a custom Graphiti-fork.
- Patented an algorithm for forecasting energy use based on historical conditions and current weather.
- Optimized code for other teams (in Java, Python, Ruby, and R) to reduce memory footprints and speed up execution.

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.

Education

University of Waterloo   *Waterloo, ON, Canada*

BACHELOR OF SOFTWARE ENGINEERING   *September 2001 - June 2006*

- Dean's Honours List
- Engineering Valedictorian