

# Christopher Porter

SOFTWARE ENGINEER

Vancouver, BC, Canada

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## Technologies

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

## Experience

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### Thrive Health

Vancouver, BC, Canada

TECHNICAL LEAD

December 2017 - Present

- Managed up to 6 direct reports on the Platform team responsible for building the foundational infrastructure
- Ran retrospective meetings and 5 whys sessions to help the team evolve its processes
- Load tested our APIs and built a caching layer to ensure the Canada COVID-19 app could scale to millions of users
- Helped set the strategic direction of the company as a member of the leadership team
- Architected the access control lists to ensure the privacy of health data and prevent data breaches
- Built a scalable event tracking system that kept data in Canada and gave insights to public health officials

### Clir Renewables

Richmond, BC, Canada

TECHNICAL LEAD

April 2017 - November 2017

- Led 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
- Patented an algorithm for forecasting energy use based on historical conditions and weather
- Wrote Chef recipes to provision our cloud infrastructure in EC2
- Setup a monitoring stack using Logstash, Kibana, Graphite, Statsd, and a custom Graphiti-fork
- Optimized code for other teams (in Java, Python, Ruby, and R) to reduce memory footprints and speed up execution
- Handled technical recruiting for new developers, including managing the coding challenge

### 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

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### University of Waterloo

Waterloo, ON, Canada

BACHELOR OF SOFTWARE ENGINEERING

September 2001 - June 2006

- Dean's Honours List
- Valedictorian