Christopher **Porter**

SOFTWARE ENGINEER

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Technologies

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

Experience

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*

- 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.
- 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

University of Waterloo   *Waterloo, ON, Canada*
BACHELOR OF SOFTWARE ENGINEERING   *September 2001 - June 2006*

- Dean's Honours List
- Valedictorian