

Christopher Porter

SOFTWARE ENGINEER

Vancouver, BC, Canada

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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

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
 - Asynchronous 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
- Valedictorian