Christopher **Porter**

SOFTWARE ENGINEER

Vancouver, BC, Canada

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Technologies

Languages	Java, Python, Javascript (Node.js), R
Databases	MySQL, Cassandra, Redis, Elasticsearch, Redshift
DevOps	Docker, Logstash, Chef, Graphite, StatsD, AWS CLI

Experience

Clir Renewables
TECHNICAL LEAD

Richmond, BC, Canada
April 2017 - Present

- Team lead for 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)
PRINCIPAL SOFTWARE ENGINEER

Vancouver, BC, Canada
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.
- Mentored junior developers on our team, teaching them fundamentals in code design and software life-cycles.
- Optimized code for other teams (in Java, Python, Ruby, and R) to reduce memory footprints and speed up execution.

Business Objects (Acquired by SAP)
SOFTWARE DEVELOPER

Vancouver, BC, Canada
July 2006 - September 2008

- Developed server-side components in C++ and Java.
- Feature owner of licensing technology and Java container server.
- Quickly learned new codebases and helped with features that were behind schedule.

Morgan Stanley
PROGRAMMER ANALYST (CO-OP)

London, England
August - December 2005

- Worked for the Credit Derivative Swap (CDS) team.
- Created C# GUI component to view historical data.
- Integrated a third-party distributed cache to store real-time market data.

Microsoft
SOFTWARE DESIGN ENGINEER IN TEST (CO-OP)

Redmond, WA, USA
January - April 2005

- Created quality measurement tool for MSN Newsbot that revealed several weaknesses.
- Improved Newsbot's algorithm to return more relevant content for Canadian users.

Education

University of Waterloo
BACHELOR OF SOFTWARE ENGINEERING

Waterloo, ON, Canada
September 2001 - June 2006

- Dean's Honours List
- Engineering Valedictorian