Christopher **Porter**

Software Engineer

Vancouver, BC, Canada

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Technologies

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

Experience

Clir Renewables   *Richmond, BC, Canada*

Technical Lead   *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)   *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.
- 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)   *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.
- Quickly learned new codebases and helped with features that were behind schedule.

Morgan Stanley   *London, England*

Programmer Analyst (Co-op)   *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   *Redmond, WA, USA*

Software Design Engineer in Test (Co-op)   *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   *Waterloo, ON, Canada*

Bachelor of Software Engineering   *September 2001 - June 2006*

- Dean's Honours List
- Engineering Valedictorian