Christopher **Porter**

SOFTWARE ENGINEER

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Experience

Pulse Energy (Acquired By EnerNOC and Yardi)   *Vancouver, BC, Canada*

PRINCIPAL SOFTWARE ENGINEER   *September 2008 - Present*

- Architected and built a time-series database with Cassandra to store terabytes of smart meter data. The wrapping service is written in Java. It has been running for 4 years, receiving 70 million new readings a day and 4 million reads, with hardly any maintenance or support.
- Built our energy platform that exposes APIs for fetching metadata and time-series data.
- Wrote a tariff engine in node.js for modelling energy costs.
- Handled technical recruiting for new developers. Crafted the coding challenge given to new applicants and score every submission.
- Hands on with DevOps. Helped write the CloudFormation scripts that build our AWS infrastructure and wrote Chef recipes to provision new nodes. Setup our monitoring stack (which uses Logstash, Kibana, Graphite, and Statsd). Forked and tweaked the open-source Graphiti project for creating Graphite dashboards.
- Involved in writing algorithms for forecasting energy use. Have my name on a patent for a algorithm for predictive energy curves, which I'm both proud and ashamed of (because software patents should be illegal).
- Mentored junior developers on our team, teaching them good fundamentals in code design and software life-cycles.
- Optimized code for other teams (in Ruby, Java, Python, 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 - Decemember 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.
- Spearheaded an effort to improve the quality of Newsbot's Canadian content.

Education

University of Waterloo   *Waterloo, ON, Canada*

BACHELOR OF SOFTWARE ENGINEERING   *September 2001 - June 2006*

- Dean's Honours List
- Engineering Valedictorian