Matthew **Peyrard**

SOFTWARE ENGINEER

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Education

Carleton University   *Ottawa, Canada*

BACHELOR OF COMPUTER SCIENCE   *Graduated Fall 2010*

- Graduated with Highest Honours
- Co-operative Education
- Thesis: "Massively Parallel Path Finding on the TESLA architecture."
- Advisor: Prof. Frank Dehne
- GPA: 11.54/12

Skills

Programming	C, C++/C++14, C#, CUDA, Java, LaTeX, MatLab, Python.
Machine Learning & Data Science	NumPy, Pandas, scikit-learn
Natural Language Processing	Apache OpenNLP, NLTK and Stanford CoreNLP.
Database & Search	Cassandra, MSSQL, Solr/Lucene.
Distributed Systems	Apache Mesos, Apache Storm, and Datastax Enterprise.
Web	ASP.NET, JAX-RS.
Graphical	WPF, wxWidgets.
GIS	ESRI ArcGIS and ArcObjects.
Leadership	Experience as Team Lead and Scrum Master.

Experience

JSI Telecom   *Ottawa, Canada*

SOFTWARE ENGINEER   *March 2015 - Present*

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Nanometrics   *Ottawa, Canada*

SOFTWARE ENGINEER   *July 2014 - March 2015*

- Performed theoretical work to analyze the complexity of the various data acquisition patterns encountered by the time-series database built and maintained by the company. Used the results to design algorithms that optimize the way in which data is consumed when the system is under heavy load.
- Designed a new threading and synchronization model for the database to increase its scalability.
- Designed several front-end and back-end features for the product *Apollo Server*, a seismic data acquisition and retrieval system. These features involved monitoring and controlling seismic monitoring instruments (sensors and digitizers).

Thales Canada   *Ottawa, Canada*

SOFTWARE ENGINEER   *January 2012 - July 2014*

- Worked as a software developer on *SOTS Platform*. This software allows military personal to automate the configuration of the communications equipment in military land vehicles. It also allows them to monitor and validate the configurations and operational status of said equipment.
- Worked as a software developer on *Tactical Battle Management System*. This software automates the live communication of tactical battle information amongst military land vehicles.
- Worked as a software developer and team lead on *SOTS Site*. This software supplies military personnel with the ability to configure communications frequencies and networks across groups of military land vehicles.

Electronic Arts   *Vancouver, Canada*

SOFTWARE ENGINEER (CONTRACTOR)   *February 2011 - August 2011*

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Canadian Ice Services (Environment Canada)   *Ottawa, Canada*

Software Engineer (Contractor)   *March 2010*

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Electronic Arts   *Vancouver, Canada*

Software Engineer (Co-op Student)   *May 2007 - September 2007*

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Canadian Ice Services (Environment Canada)   *Ottawa, Canada*

Software Engineer (Co-op Student)   *May 2007 - September 2007*

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Cognos (IBM)   *Ottawa, Canada*

Software Engineer (Co-op Student)   *May 2006 - January 2007*

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Honors & Awards

Academic

2010	**Senate Medal**, Outstanding Academic Achievement	*Carleton University*
2005-2009	**Dean's List Scholarship**, Outstanding Academic Achievement	*Carleton Univeristy*