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SOFTWARE ENGINEERING DIRECTOR

Please consider my candidacy for the role of **Software Engineering Director**. Throughout 18 years experience in software development, including 12 years as senior consultant for multiple businesses, I acquired rich and diversified experience.

This diversity of practical knowledge gives me a clear vision not only on the best technology to accomplish a given goal, but also on the best team structures and strategies to deliver value for businesses and their customers.

I am fully bilingual in French and English and I have many sought-after leadership skills, which makes me a great fit for this role. I'd be glad to schedule a time to discuss about this position of **Software Engineering Director**. I am eager to accomplish new challenges as soon as **June 29 2020**.

Sincerely,
Jonathan Demers, Eng.

MANAGEMENT PROFILE

Creative, hands on leader with extensive experience in software engineering. Highly technical, inspiring and motivating model for other leaders and teams. Fast learner, excellent problem solver and strategic decision maker, with natural propensity to perform in fast paced environments. Thorough understanding of both organizational and technical stakes of software development and their relationships.

Leadership	Technical
<ul style="list-style-type: none">✓ Organizational Leadership ✓ Strategic Planning✓ Team Coordination ✓ Talent Management ✓ Coaching✓ Vision Alignment ✓ Goal Setting ✓ Team Leadership✓ Communication ✓ Collaboration ✓ Management	<ul style="list-style-type: none">✓ Software Development Life Cycle (SDLC)✓ Agile Methodologies ✓ Architecture✓ Distributed Systems ✓ Design Patterns ✓ REST ✓ SOA✓ DevOps ✓ System Integration ✓ Development

PROFESSIONAL EXPERIENCE

TD Bank - Development Lead (Consultant)

Jun 2018 - Present

- Lead teams of developers and devops on numerous successful enterprise projects.
- Advise the department senior director on organizational matters.
- Contribute to new A/B infrastructure and architecture vision and designs.
- Steer the new CI/CD pipeline vision and development.
- Advise on project and delivery planning.
- Facilitate communication between business stakeholders and technical teams.

Projects: GPS 2.1, GPS 2.2 and much more. Multiple system integrations. Buy online. Customer facing applications: [MyInsurance](#), [DigitalQuoter](#).

Technologies: Java, Spring, Maven, JBoss, OAuth 2.0, REST, Soap, Angular, Typescript, NodeJS, PM2, npm, Oracle, Linux (RHEL), Git, Atlassian suite (Bitbucket, Jira, confluence, etc.), CDN, Private Cloud, CI/CD, Jenkins, Ansible, Docker, Agile methodology.

OpCode Solutions - Leader & Consultant - Software Engineering

Aug 2008 - Present

This is the company through which I provide technology consulting services, including organizational leadership, infrastructure & architecture vision, strategy and hands-on execution.

- **Leadership:** Communication, Innovation, Motivation, Strategic thinking, Problem solving, Decision making, and more...
- **Backend:** Java, J2EE, Spring, NodeJS, Typescript, Python, Web services, REST, OAuth, SQL, Linux, Cloud, and more...
- **Frontend:** HTML, CSS, Javascript, Angular, Bootstrap, REST, and more...

Pstox - Senior Software Engineer (Consultant)

Sep 2017 - Jun 2018

Contribute to architecture and development of ThinkingCapital's online financing platform for businesses, which got successfully acquired by Purpose Financial. Multiple system integrations, including Salesforce and Equifax.

Technologies: Mule ESB EE, Java 8, JPA, MariaDB (MySQL), REST, JSON, OAuth2, JWT, Auth0, Swagger, Spring Boot, Elasticsearch, Docker, Maven, Anypoint Studio, Eclipse, Git, Jenkins, Jira, JMeter, etc.

Morgan Stanley - Senior Software Engineer (Consultant)

Sep 2015 - Apr 2017

Contribute to architecture and development of real-time pricing of fixed income securities and search platform used by financial advisors. Lead, coach and motivate 2 developers and advise performance to software development VP.

Technologies: Java 8, Scala, Linux, DB2, WebSphere MQ, Spring, Hibernate, Spring, Play, SBT, Git, Autosys, Kerberos, Linux, etc.

Intact - Senior Software Engineer (Consultant)

Jul 2013 - Jan 2014

Contribute to development of new insurance policy management system on service oriented architecture (SOA backend). Project: PAS.

Technologies: Java/J2EE, Websphere, SOAP, JAXB, XSD, WSDL, Spring, Hibernate, Oracle, RAD, RTC (Jazz: Source and work item).

Industrial Alliance Securities - Senior Software Engineer (Consultant)

Feb 2013 - Jul 2013

- Contribute to architecture and development of new fixed income trading platform (Bond Trader).
- Integration with Bloomberg TOMS for real-time price feed and trade capture report over FIX protocol and real time trade feed over Bloomberg proprietary protocol.
- Integration with CBID's external trading platform to submit orders and receive executions over FIX protocol.
- Integration with IBM ISM (SIS) to send phase1 files automatically in real time (DP trades) and at the end of day (normal trades) via SFTP.

Technologies: Java/J2EE, Tomcat, Mule ESB, QuickFIX/J, JSch, Spring, JSON, HTML, CSS, JQuery, Linux (Ubuntu Server), MySQL.

Desjardins - Senior Software Engineer (Consultant)

Aug 2012 - Feb 2013

Lead backend development of new online trading platform (Stocks, Options, Mutual Funds, etc). Provide technical leadership to the software development team and architecture vision.

Technologies: Java/J2EE, Tomcat, Weblogic, Mule ESB, Spring, JSON, Linux (Red Hat), SunOS, MySQL.

Gemalto (now Thales) - Senior Software Engineer (Consultant)

Oct 2011 - Jul 2012

Develop mobile banking solution framework on backend and frontend (Android).

Technologies: Java/J2EE, OSGi, Jetty, Hibernate, Android SDK, SOAP, Linux (Red Hat), Oracle.

Desjardins - Senior Software Developer (Consultant)

Oct 2010 - Oct 2011

Contribute to architecture and development of new Stocks/Options trading system. Integration with IBM OSS servers over MQ. Migrate other existing Java applications to HA infrastructure.

Technologies: Java/J2EE, Tomcat, Mule ESB, Spring, Websphere MQv7, ActiveMQ, Linux (Red Hat), MySQL.

Penson Financial Services - Senior Software Developer (Consultant)

Apr 2010 - Oct 2010

Migrate and enhance several financial applications from IBM ISM platform to Broadridge platform.

Technologies: Java/J2EE, Tomcat, Struts, Hibernate, Linux (Debian), MS SQL server.

Gemalto (now Thales) - Senior Software Developer (Consultant)

Aug 2008 - Oct 2009

Contribute to development of mobile instant messaging and mobile banking applications (backend). In charge of performance/stability assessment and optimizations.

Technologies: Java/J2EE, OSGi, Jetty, SOAP, Linux (Red Hat), Oracle, JMeter.

Tecsys - Solutions Architect / Software Developer

Mar 2006 - Jul 2008

Develop Supply Chain Management applications. Started as software developer in R&D and got promoted to solutions architect in Custom Enhancement department.

Technologies: Java/J2EE, JBoss, Websphere, JAX-WS, AIX, Linux, Oracle, Informix.

Morgan Stanley - Systems Architect

Aug 2004 - Mar 2006

Contribute to development of distributed financial system for trade allocation of fixed income securities. Consultant for Morgan Stanley in Fixed Income Division (Employee of Compuware).

Technologies: Java/J2EE, JXB (proprietary app framework), CPS (proprietary pub-sub engine), Tomcat, SOAP, IBM MQSeries, Linux, Sybase.

Logient - Software Developer

Dec 2002 - Aug 2004

Develop various applications, from generic CMS to custom E-Commerce solutions.

Technologies: Java/J2EE, Tomcat, Resin, Servlet, Jsp, Taglibs, XML, DTD, XSLT, XPath, Linux, Oracle, PostgreSQL, Html, Javascript.

Institut de recherche d'Hydro-Quebec - Software Developer

May 2002 - Dec 2002

Develop real-time software and hardware integration for underwater robot used for the inspection of hydroelectric dams. R&D, robotics department.

Technologies: C++, MICROB robotic library, Inertial navigation system, Kalman Filter, QNX Real Time OS.

Intern - Canadian Space Agency

Apr 2001 - Aug 2001

Develop testbed to measure the performance of spatial RF communication modules.

Technologies: MatLab, LabView, RF Lab equipment (spectrum analyzers, network analyzers, arbitrary signal generators, etc).

EDUCATION

University of Michigan - Specialization, Organizational Leadership

2017 - 2018 [Credential ID HRYMS5AB3PTJ](#)

This 5-Star "*Leading People and Teams Specialization*" from Michigan faculty strengthen essential leadership skills with proven management techniques. It also includes interviews with exceptional leaders Jeff Brodsky, Global Head of HR for Morgan Stanley, and John Beilein, Head Coach of the University of Michigan Men's Basketball Team. The specialization has 5 courses over 20 weeks:

- Inspiring and Motivating Individuals
- Managing Talent
- Influencing People
- Leading Teams
- Leading People and Teams Capstone

Grade Achieved: 99%

Polytechnique Montréal - B.Eng., Engineering - Telecommunications

1998 - 2002

- Mention of excellence from the general director for academic achievement.
- Scholarship for academic excellence.
- Achieved [unconditional admission to PhD](#) directly (skipping Master), I did not pursue this goal.

GPA: 3.8 (max of 4.0 at Polytechnique)

CERTIFICATIONS

deeplearning.ai - Artificial Intelligence - TensorFlow in Practice

Certificate Issued 2020 - 4 courses, 16 weeks:

- Introduction to TensorFlow for Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning
- Convolutional Neural Networks (CNN) in TensorFlow
- Natural Language Processing (NLP) in TensorFlow
- Sequences, Time Series and Prediction

deeplearning.ai - Artificial Intelligence - Deep Learning

Certificate Issued 2019 - 5 courses, 16 weeks:

- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models

MuleSoft - MuleSoft Certified Developer - Integration and API Associate

Certificate Issued 2017 (2 years validity)

REFERENCES

"Jonathan is efficient, competent and has an excellent knowledge of architecture, design, development and the Java language. He is a key player and person to have on your major project."

-- Aiman Sawan, Founder at Butor

"Jonathan is a quick learner that adapted very well to our work environment. I recommend Jonathan on every team that have challenging problems to solve or critical system to deliver"

-- Tony Bussieres, Chief Technology Officer, Big Data specialist & Co-founder at TickSmith

"Jonathan has practical experience of a wide range of technologies but he is particularly notable for his ability to "get it". He is quick to understand the principles of existing technology and business practices, and is insightful when designing new systems."

-- Joel Phillips, Mathematician & Developer