

# J O D I S P A C E K

www.jodispacek.com | jodi.spacek@gmail.com | Remote Vancouver, Montreal, Paris

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I'm an experienced professional with over 10 years working with backend systems and microservice infrastructure. Through the Master's program at UBC, I jump started my career with state of the art research in privacy, security, and distributed systems.

I'm seeking opportunities in security and infrastructure engineering.

## EMPLOYMENT

**2015-2016: Software Developer, Platform** Hootsuite, Vancouver, BC

- Microservice APIs with YouTube and Facebook integration and authentication to expand social media management analytics with focus on high availability and throughput.
- Seamlessly transition microservice discovery and routing from AWS EC2 classic to an auto-scaling VPC handling an average of 5000 requests per second.

**2009-2014: Programmer/Analyst, Systems** UBC IT, Vancouver, BC

- Implement a novel access management federation protocol to work across organizational boundaries with partner universities.
- Integrate Shibboleth identity provider for authentication and authorization to migrate all student system applications to single sign-on.

**2007-2009: Software Engineer, Backend** Elasticpath, Vancouver, BC

**2003-2007: Developer, Systems** University of Victoria, Victoria, BC

## SKILLS

<b>Languages</b>	Scala, Java, Python
<b>Data</b>	Redis, MongoDB, Oracle, SQL Server, MySQL
<b>Deploy</b>	Docker, AWS, Consul, nginx, Continuous Integration/Deploy
<b>Methods</b>	APIs, RESTful Microservices, Agile

## EDUCATION

**2018 (August expected): Master's of Science in Computer Science**, UBC, Vancouver, BC

**2014: Bachelor of Computer Science, second degree**, UBC, Vancouver, BC

**2001: Bachelor of Music with distinction**, Mount Allison University, NB

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## RESEARCH

**Interests:** Privacy, Security, Distributed Systems, Decentralization

**2018: NSERC Canada Graduate Scholarship-Master's (CGS M), UBC**

- Master's thesis on proxy distribution and defense techniques in Tor for Censorship Resistance Systems supervised by Dr. Ivan Beschastnikh.

**2017: MITACS Globalink Internship Award, INRIA, Rennes, France**

- Decentralization, peer-to-peer networking, and unstructured overlay research mentored by Dr. David Bromberg and François Taïani in the ASAP group.

## PROJECTS

**2015: Networking/Systems Researcher, UBC** [bitbucket.org/bestchai/shivector](https://bitbucket.org/bestchai/shivector)

- Contribute a Python version of ShiVector, a tool that instruments distributed logs with partial ordering information as a Directed Studies student under Dr. Ivan Beschastnikh.

**2014: Computer Music Researcher, UBC** <https://github.com/jspacek/intelligentcomposer>

- Self-generating melodic composer in C++ based on statistical calculations and music counterpoint theory using networking techniques studying with Dr. Keith Hamel.

## VOLUNTEER

**2017-2018: Open Privacy Research Society**, <https://openprivacy.ca/>

**2012-2016: Senior Industry/Academic Mentor**, UBC Tri-mentoring Program

**2016: Industry Guest Lecture, Microservices**, Distributed Systems CPSC 416, UBC, Vancouver, BC

**2015: Hour of Code, Volunteer, Presenter**, Hootsuite, Vancouver, BC

**2014: GirlSmarts, Volunteer Activity Facilitator**, UBC, Vancouver, BC

## AWARDS

**2018: Canada Graduate Scholarships-Master's Fellowship**, UBC, Vancouver, BC

**2003: Bell Undergraduate Research Award**, Mount Allison University, NB