

# Jacob K. Waters

☎ 1 (613) 816 4618  
✉ [jkwaters@gmail.com](mailto:jkwaters@gmail.com)  
in [/in/watersjacob](https://www.linkedin.com/in/watersjacob)

**Bachelor of Computer Science**, *Carleton University*

Jan 2014 – Apr 2019

**Candidate for Environmental Engineering**, *University of Waterloo*

Sep 2010 – Aug 2013

## TECHNICAL SKILLS

- **Languages:** Java, Clojure, Python, .NET, C#, C, C++, JS (Node, Angular), Racket, Swift
- **Databases:** Oracle, MongoDB, SQLite, PostgreSQL
- **Environments:** Linux (Ubuntu, RHEL, CentOS, Fedora), Docker, Mac OS, Windows
- **Design:** Sketch, Adobe Photoshop, Illustrator
- **Leadership:** Led small team in developing a Capture the Flag simulation in Java, managed drilling team, rowing coach

## WORK EXPERIENCE

**Junior Developer**, *Transport Canada*, Ottawa, Ontario

Jun 2019 – Present

- Contribute to making the security screening process a better experience for Canadians by developing workflows to process and approve airport worker security applications.
- Develop new features using the Microsoft Stack (.NET, C#) and Oracle SQL that were deployed continuously into a production environment.
- Use TDD frameworks and pair programming to ensure high quality of code. Identify missing automated tests and fixing bugs in the codebase.
- Deliver continuous value to the client by working in week long sprints.

**Junior Developer**, *CENX*, Ottawa, Ontario

Jan 2017 – Aug 2017

- Implemented a centralized configuration using Apache Zookeeper and Clojure; utilized Gitflow Workflow for developing features.
- Created a portable virtual machine for sales reps to use for client demos using a scaled-down docker deployment.
- Participated in daily stand ups; reporting on work progress and keeping up with team objectives and goals.

**Junior Developer**, *Thinkwrap Commerce*, Ottawa, Ontario

May 2015 – Aug 2015

- Created a Google Chrome extension to automate search engine optimization (SEO) research.
- Analyzed keywords, webpage content, and website architecture on client's websites to create a SEO audit of recommendations.
- Developed a Python script using regular expressions to filter broken URLs and redirect customers to valid webpages.

**Environmental Intern – Drilling**, *Detour Gold Corp.*, Cochrane, Ontario

Jan 2013 – Apr 2013

- Assisted in managing three crews drilling monitoring wells.
- Wrote a report interpreting two years of baseline surface and groundwater chemistry data; used as a part of Ministry of Environment annual report.
- Designed and implemented a database for tracking water, soil, and air samples.

## VOLUNTEERING & ACTIVITIES

**Operation Big Turkey**, prepared and served Christmas dinners for over 300 people

2007 – 2018

**The Ottawa Mission**, helped weekly with food prep and service

2006 – 2010

- Enjoy playing piano; listening to music, podcasts, and comedy; canoeing and hiking; preparing and eating fine cuisine