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Education

Ottawa, ON **Carleton University** **Sep '10 – May '16**
Bachelor of Engineering, Software, Co-op

Work Experience highlights

Kanata, ON **JSI Telecom** **Jul-Aug '10, May-Aug '11**

- Independently developed a batch data analysis tool in C# and XQuery

Kanata, ON **GENBAND Corp.** **May-Aug '12, Jan-Dec '13**

- Tested and reported on SIP handsets and proxies
- Debugged lab network: routing, firewalling, tunnelling, bridging, ARP proxying, SIP
- Designed and implemented a proxy for the legacy Ameritec Crescendo-A analog test box
- Implemented assorted tools to do code analysis on XML-serialized test cases, *en masse*

Kanata, ON **LiveQoS Inc.** **May-Aug '14**

- Performed research for TCP optimization team
- Augmented Linux driver tun/tap-based tunnel awareness
- Cleaned and extended CMake Linux build system

Ottawa, ON **Miralaw Inc.** **May '15-Present**

- Performed preliminary NLP experiments
- Collaboratively designed and implemented thistoo.co website backend; current maintainer
- Mentored junior software development intern into backend developer and tester

Personal Projects, Volunteer Work

Carleton University, ON **The EngSoc Project** **'12-'14**

- Administrate a mail server, mailing lists, an HTTP server, databases, and a shell services server
- Upgrade, refresh, and dispose of hardware, maintain software and documentation

Home server **'11-Present**

- Provide Git/SSH/SMTP/IMAP services (see also <https://github.com/pilona>)
- Host six other domains and associated subdomains
- Built custom Linux router, on Soekris net5501 SBC

Languages, Protocols, etc.

- Python, POSIX shell, Ruby, C, Awk, Java
- Linux: Policy routing, tunneling, firewalling, traffic control, kernel configuration
- Flask, Rails, PyGi Gtk3, Tkinter
- Git