

# Rafik Rezzik

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## Employment

### Software Developer

March 2015 - August 2016

at Ross Video  
Nepean, Ontario

- Worked on **OverDrive Automated Production System**. The software allows for producing complex shows by controlling devices (switcher, audio mixers, servers, etc.). Users can have fully automated, semi-automated or traditional manually controlled productions using the same equipment and without changing configurations.
  - Server code was written in Java to control the hardware video switcher through in-house messaging protocol.
  - Desktop application was written in Java with Swing.
  - Worked with team members to identify address any concerns in daily scrum 'stand-up' meetings.
- Worked on the **Inception** newsroom system. Inception is a browser-based newsroom content and editorial system that places social media integration right into the center of news production.
  - Backend was written in Java and exposed an interface through a RESTful API.
  - The frontend was a browser application written in JavaScript and heavily leveraged JQuery.
  - Integration with social-media APIs.
  - Project management with scrum, using Atlassian Jira.
  - Application uses Eclipse Plugin infrastructure.

### Software Developer

October 2012 - November 2014

at Superna  
Kanata, Ontario

- Considerable amount of work with storage arrays from EMC and HP. The work revolved around a utility for simplifying the task of migrating data between storage arrays sold by the two vendors. Communication with the EMC arrays was achieved through the SMI-S protocol.
  - Exposure to Fibre Channel networks.
  - Server and client written in Java. Web service layer used the Spring framework.
  - JUnit tests and bi-weekly source code merge with other team.
- Developed a Python module for an existing framework, allowing for a lightweight agent to run on a machine and act as an HTTP proxy.
  - The module allows the agent to be in the middle of HTTP session, allowing logging, manipulation, data gathering, etc.
  - Especially useful for debugging applications that leverage RESTful HTTP APIs.
- Contributed towards the development of a software appliance for VCE Vblock converged infrastructure management by leveraging the VCE Intelligent Operations API.

- Involved changes to a Java agent to gather needed Vblock data using the VCE Intelligent Operations API. The VCE Intelligent Operations SDK and VMware API were used.
- Considerable amount of front-end development in JavaScript, leveraging the ExtJS framework.
- Development work on an encryption key management tool. The tool allows management of NE (network elements), which are optical encryption cards, circuit management (encrypted channels between hardware network elements), etc.
- The web interface (.NET MVC) communicates with the database using a SOAP web services API written in C#.

### *Programmer*

May 2012 - August 2012

at Earthquakes Canada, Natural Resources Canada  
Ottawa, Ontario

- Worked on server virtualization on Linux using the Xen hypervisor.
- Setup and maintained servers along with databases for automating Strong Motion seismic network.
- Worked on tools to automate the reporting of seismic activity from instruments in the field.
- Started work on an intranet tool used by seismologists to report an earthquake on <http://earthquakescanada.ca> and to Twitter. This involved PHP, PostgreSQL, HTML/CSS/Javascript, and Git for revision control.
- Main technologies used:
  - Linux, Solaris
  - PostgreSQL, MySQL
  - Perl, Python, Shell scripts
  - PHP, Javascript/CSS/HTML
  - Git, SVN

## Technical Skills

### *Operating Systems*

- Comfortable with Linux and Windows development environments.

### *Programming Languages & Development Tools*

- Java, Hibernate
- Python, Flask
- Perl, Unix shell
- HTML, CSS, JavaScript, ExtJS, JQuery

### *Databases, Revision Control, and other technologies*

- MySQL, PostgreSQL, SQLite, MongoDB
- Git

## Education

### *Carleton University*

Bachelor of Computer Science (BCS) with High Honours

April 2012

