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RYAN SEYS

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SUMMARY

Software engineering undergrad with a passion for writing beautiful code, solving unique problems and the aspiration of benefiting millions of users around the world.

EMPLOYMENT

Software Developer   **Top Hat**   **September 2013 – Present**
  Top Hat Monocle
- Presently working to improve the tools that are helping enrich student response and engagement in the classroom

Identity Intern   **Mozilla**   **May – September 2013**
  Persona + WebRTC
- Implemented WebRTC authentication module in Firefox as outlined in W3C specification as patches and an add-on
- Extended Persona to support WebRTC authentication so Persona-enabled sites can authenticate WebRTC calls
- Built Tin Can, a web application for calling friends securely, showcasing the importance of WebRTC authentication

Software Automation Developer   **BlackBerry**   **January – May 2013**
  Radio Provisioning
- Reduced complex query response times from ~40s to 4s (10x) on internal Django-based build-scheduling system
- Developed a REST API for automating build submission and retrieval of JSON/JSONP-formatted task-results
- Handcrafted dynamic JQuery DataTables status panels which hooked into the REST API and Django backend

Software Developer   **Blindside Networks**   **May – September 2012**
  BigBlueButton
- Developed an HTML5 Client for BigBlueButton using NodeJS, WebSockets (SocketIO), Redis and HTML5
- Applied Ruby, JavaScript and SVG to BigBlueButton whiteboard playback to add shapes, cursor, clears/undos
- Documented in detail the specifications of changes made to various aspects of BigBlueButton

EDUCATION

Ottawa, Canada   **Carleton University**   **September 2010 – Present**
- Bachelor of Engineering, Software Engineering (Co-op Option)
- Third Year Standing, CGPA 10.57/12 (A–, 88%)
- Anticipated Graduation Date: April 2015

TECHNICAL EXPERIENCE

Personal Projects
- **PhotoGPS (2013):** Drag-n-drop photos to instantly plot on Google Maps using GPS Exif data via FileReader API
- **tmprtr (2013):** Zero-click weather app gives instant location-based weather conditions from Wunderground API
- **Next O-Train (2012):** NodeJS/Bootstrap website shows countdown to Next O-Train per station and direction
- **Multi-Session WebCT (2011):** A Firefox/Chrome extension that enables multiple sessions in Carleton U's WebCT

Team Projects
- **Server/Client IPC Chat (2012):** Server/Client chat application written in C using IPC message queues
- **68HC12/Axiom Driver (2012):** Assembly-based driver for an HC12 microprocessor and Axiom project board
- **CampusGrids (2012):** Social website that helps Carleton students find and share events and clubs on campus

ADDITIONAL EXPERIENCE AND AWARDS

- **IEEE Volunteer & Technical Director (2011 – 2013):** Maintained & supported IEEE electronic equipment, computer services and website; organized and ran events for IEEE (including SPAC, FPGA Competition and CodeJam)
- **Hackathons/Conferences:** Facebook (Toronto), #Hack4Good (SF), Hackanooga (Chattanooga), CUSEC (Montreal)

LANGUAGES AND TECHNOLOGIES

Languages & Markups: JavaScript, Ruby, Python, Java, C, XML/SVG Schema, HTML5, CSS, SQL
Libraries & Frameworks: NodeJS, Ruby on Rails, Django, JQuery, SocketIO (WebSockets), DataTables, RaphaelJS
Tools: Git, Mercurial, SVN, Heroku, AWS, Redis, Eclipse, Perforce
Practices: OOP, MVC, TDD, Agile