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RYAN SEYS

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SUMMARY

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

EMPLOYMENT

Identity Intern

Mozilla

May 2013 – Present

Persona + WebRTC

- Presently developing with the Identity Team to improve Persona, an easy & secure new way of signing into the web

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

AVAILABILITY

Available for 4 months starting September 2013 or 4 months starting May 2014

TECHNICAL EXPERIENCE

Personal Projects

- **PhotoGPS (2013):** Drag-n-drop photos to instantly plot on Google Maps using GPS Exif data via FileReader API
- **tmptr (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 Carleton Technical Director (2012 – 2013):** Responsible for maintenance and support of the IEEE electronic equipment, computing services and website plus all responsibilities as an IEEE volunteer
- **IEEE Carleton Volunteer (2011 – 2012):** Attended and contributed to all executive meetings, assisted in office shift responsibilities and organized events for IEEE Carleton events (e.g. SPAC 2012, FPGA Competition, CodeJam)
- **Hackathons/Conferences:** Facebook (Toronto, ON); Hackanooga (Chattanooga, TN); CUSEC (Montreal, QC)

LANGUAGES AND TECHNOLOGIES

Languages and Markups: JavaScript, Ruby, Python, Java, C, XML/SVG Schema, HTML5, CSS, SQL

Frameworks: NodeJS, Ruby on Rails, Django

Libraries: JQuery, Bootstrap, RaphaelJS, PopcornJS, SocketIO (WebSockets), DataTables

Tools: Git, SVN, Heroku, Redis, Eclipse, Perforce

Practices: OOP, MVC, TDD, Agile