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Highlights

- Cloudera certified CCA Spark and Hadoop Developer (CCA175)
- Over a decade of Full Stack development including disparate design, back end and front end development
- Recently focused on Big Data and Distributed Computing with a touch of Machine Learning

Project X, Ltd. – Big Data Engineer

June 2017 – Present

- Big Data pipeline, ETL, and Data Lake development for a large Canadian telecom client
 - Architecting and development of Oozie based scheduled workflows ingesting and transforming diverse internal and external data sources
 - Development of PySpark and Scala data transformation scripts
 - Writing and optimizing Hive and Impala SQL queries and transformations
 - Java development of Excel exporting functionality
- Historical and forecast weather reporting platform architected and developed from conception to production
 - Python Celery scheduling backed by a Redis message queue back end
 - Sourcing and automated retrieval of several NOAA weather data feeds
 - Time series telemetry data stored in InfluxDB and presented in a Grafana user interface
 - Main data store backed by the Elasticsearch JSON document storage engine
 - Entire stack containerized in a Docker environment

Format Inc. – Full Stack Developer

May 2014 – April 2016

- Implemented third party API integrations including Facebook, Twitter, Amazon S3, MailChimp, Disqus, Tumblr
- Led backend development team on new products such as Format Magazine
- Contributed to code in every level of a full stack, from database to backend to frontend supporting the existing product as well as developing new features
- Researched and advised on third party services

Project X Labs – Senior Software Engineer

November 2011 – May 2014

- Development and operations of a Ruby on Rails SaaS application providing mapping visualizations on top of the MicroStrategy BI platform
- Plugin development with the MicroStrategy Java SDK
- Integration of Google Maps Enterprise and OpenStreetMaps APIs
- Mapping data management and querying utilizing PostGIS
- Search indexing with Thinking Sphinx
- Deployment and system provisioning with Chef at Engine Yard and Vagrant VMs

LookSmart Canada – Senior Software Engineer

June 2011 – November 2011

- First Canadian engineer in team transition from San Francisco to Waterloo, Ontario
- Maintenance, support, and feature development for a Ruby on Rails application
- Interviewing, hiring and mentoring software engineers
- Development and optimization of SQL in an Oracle environment
- Assessing, diagramming and documenting system architecture and business processes

Unspace Interactive – Ruby on Rails Developer

April 2010 – June 2011

- Full stack development of Ruby on Rails based client projects in various industries

- Problem solving for HTML5 / Javascript and browser compatibility issues
- Major Projects include:
 - Girth Music (<http://www.girthmusic.com/>) - A web based music discovery engine
 - Leadformance (<http://www.leadformance.com/>) – SaaS application providing business locator, promotions management, simple CRM and other features
 - Gloveslap – Competition based social network

Watermark Insurance – Developer (Contracted by Three Wise Men)

October 2009 – April 2010

- Maintaining and developing software facilitating the back office integration with various Insurance Providers web services (ie, RBC, Manulife)
- Development of a backend project running on the GlassFish J2EE platform
- Development of a mix of front and back end projects deployed on GlassFish using JRuby and the Ruby on Rails Platform

Mosaic Sales Solutions – Interactive Developer

May 2008 – June 2009

- Developed Brand Management System – A Ruby on Rails based content management system hosting various clients sites
- Integrated with the Facebook API

TD Securities – Software Developer (Contracted by Procise Consulting)

May 2007 – October 2007

- Performing various Development, Business Analysis and Data Transformation duties as part of a 15 person team.
- Team mandate: Replace TD Securities legacy Fixed Income products trade management platform with the Calypso platform.
- Designed and programmed Data Transformation processes to facilitate data query and transfer from a legacy iSeries AS/400 DB2 backed platform to the new platform backed by Oracle 10g.
- Developed performance testing procedures and applications.
- Designed and implemented systematized project build process.

Three Wise Men Software Development and Consulting

October 2004 – March 2007

- Managed the professional services division of a 5-8 person software development company
- Performed project management of small development teams adhering predominantly to Agile Software Development framework principles
- Maintained stakeholder liaison with various corporate clients (Rogers Communications, Inc., Aviva Canada, Lakeridge Health and others)
- Developed web applications on Java EE (JBoss, Geronimo), Microsoft .Net, Ruby on Rails
- Introduced and developed Business Intelligence development services.
- Developed a proprietary reporting format (TWM-REP) consisting of Jasper Reports, custom scheduling scheduling with a web based administrative component
- Developed Java EE Portlets for deployment on the JBoss Portal server

TouchBase Consulting Inc. - Freelance Developer

2001 – Present

- Performing entire project life cycle management – requirements gathering, solution architecting / proposing, project management during development and post development support
- Developing and performing administrative tasks of Java EE, Ruby and PHP applications deployed on mixed Linux and Windows environments
- Developed Web based and Desktop (SWING and SWT) applications
- Clients include: Three Wise Men Software and Development, Cornell University, Blue Cat Design, Upward Motion