Hatem A. Nassrat

hnassrat@gmail.com

OBJECTIVE

Leading a team of passionate software engineers with special interests in scalable systems, machine learning, data mining, information retrieval, and micro-services.

EDUCATION

Masters of Applied Computer Science   May 2009
Dalhousie University   Halifax, NS
Concentration: Data Representation for Information Interchange & Storage.

Bachelor of Computer Science   May 2006
Dalhousie University   Halifax, NS

CURRENT CERTIFICATIONS

Red Hat Certified Engineer   Nov 2009
Red Hat Enterprise Linux 5   110-247-129

PROFILES

Careers, GitHub (Jekyll), Coderwall, StackOverflow, OhLoh, LinkedIn, Dalhousie, Twitter @pykler

COMPUTER SKILLS

Favorite Languages   : Python, C, C++, Java, Scala, HTML, JavaScript, PHP, SQL.

EXPERIENCE

Co-Founder and CTO   Sept 2012 - Present
LeadSift   Halifax, NS

- Real-time Sifting of Social Media Posts
- Classifying and finding intent in short texts
- Architecting integrations with third party systems
- Architecting solutions for high availability and load
- **Technologies:** Python, Django, Selenium, HTML/JS, VueJS, Angular, NodeJS, Scala, NLP, MongoDB, Postgres, Neo4J, Redis, Jenkins, Git, Mercurial, Unix, Debian, Puppet, ProxMox, Salt-Stack, AWS, Elasticsearch, ...

Chief Technical Officer (CTO)   March 2011 - Sept 2012
GenieKnows Inc. (GenieKnows.com)   Halifax, NS

- Leading development efforts to meet demanding deadlines
- Architecting new developments and developing future roadmaps for the current platform
- Working with IT consultants to create a reliable cloud computing platform to host GenieKnows' applications
- **Technologies:** Python, Java, HTML/Javascript, JQuery, Django, SVN Unix, CentOS, Cisco ASA / ASDM, ProxMox, Cloud ...

Senior Consultant   April 2008 - March 2011
NTT Data (Formerly Keane Canada)   Halifax, NS
Pason Systems - Oil & Gas Industry

- Working in a stressful enterprise production environment
- Maintaining unittests and updating QA test plans
- Developing ReSTful services, to acheive Service Oriented Architecture
- Working with multiple programming languages simultaneously, while maintaining integration.
- **Technologies:** C, Java, HTML/Javascript, Prototype, Dojo, Python, Pylons, XML, JSON, SVN, Git, MVC, ReST, SOA, Unix, CentOS.

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Software Engineer   Sept 2007 - April 2008
IT Interactive Service (GenieKnows.com)   Halifax, NS
Research & Development Department

- Developed interface functionality for local.genieknows.com (now Yellowee.com)
- Developed back end modules for the search engines developed by GenieKnows.com
- Investigated various research topics in the fields of information retrieval.
- **Technologies:** Perl, Python, C/++, PHP, Javascript, OSGeo, CentOS, Unix, SVN.

Web Programmer   June 2007 - Sept 2007
ArtistXite.com   Halifax, NS

- Developed interface and backend functionality to display web traffic statistics.
- Developed a system to upload videos and encode them into flash video format.
- **Technologies:** MySQL, Perl, PHP, Javascript, FFMpeg, Unix, SVN, CVS.

Masters Student   Aug 2007 - May 2009
Dalhousie University   Halifax, NS

- Implemented the DesignDB (DDB project extension) as my Masters Thesis.
- Designed and Implemented the External Representation of Block Designs v3.
- **Technologies:** Python, Python Ctypes, Pylons, SqlAlchemy, Mako, AJAX, JSON, XML, SQLite, PostgreSql, Mercurial Hg, (Li|U)nix.

Python/Web Developer   June 2006 - Aug 2007
D-Drive Lab, Dalhousie University FCS   Halifax, NS
Design Database Project
Satellite Project of DesignTheory.org, Queen Mary University   London, UK

- Developed a python web application that connects to an Sqlite database containing statistical designs.
- Assisted in the design of a schema to store statistical t-designs.
- Used a state of the art pythonic web framework (Cherrypy 3.0), along with other, such as a templating language, to develop the design database browser.
- **Technologies:** Python, Cherrypy 3.0, Genshi, HTML, SQLite, XML, Shell (Unix) Scripting, Apache, SVN, Mercurial Hg.

Professional Software Developer   Since 2003

- **Technologies:** Oracle, Oracle Developer (IDE), Java, Microsoft Excel, J2EE, J2SE, Apache, PHP, MySQL, Apache, IIS, Windows Networking

COMMUNITY SERVICE

IT Committee Lead Member   Feb 2008 - Jan 2012
UMMAH Community Center   Halifax, NS

- Managed a small team to assemble a website in Joomla to inform potential donors and members of the community with news and updates.
- Designed and implemented a Joomla Template along with new plugins as well as adding features to existing joomla plugins used on the website.
- Prepared presentations, slideshows and media required by the committee.
- **Technologies:** LaTeX, PHP, Joomla, Python

HOBBIES

Coffee (Trying to master all possible coffee techniques and drinks), Wood working (furniture making), Electronics (Arduino, RPi), Smart Homes (Zigbee, Zwave), and LaTeX (eg. this resume).