Hugh Brown

Denver, Colorado

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WORK EXPERIENCE

Amplify (Brooklyn, NY; remote from Denver since Nov 2013)

Senior Software Developer, Dec 2009 - Present

Technologist, Engineering Productivity Group 2013 - Present

- ▸ Evaluate deployment and continuous integration technologies: AWS, docker, vagrant, consul, ansible, ansible tower.
- ▸ Develop custom data visualization tools in python.
- ▸ Amazon AWS, docker, vagrant, python-boto; D3.js, python-jenkinsapi, flask, jenkins, mongodb, Apache.

Technologist, System Product Group 2012 - 2013

- ▸ Develop and maintain server applications in python with flask and pylons, rabbitmq, mongodb, Apache.

Web Developer, Offline Web Assessments Group 2010 - 2012

- ▸ Develop application for browser and devices (Android, IOS) that edits and updates disconnected data. Scrum-based team with continuous integration.
- ▸ Client: HTML5; CSS3 with sass; JavaScript with jQuery, backbone, Google closure, underscore.js.
- ▸ Server: pylons (Python 2.6). Also: selenium, Hudson/Jenkins, rake.

Web Developer, Views Group 2010

- ▸ Enhancements for web-based UI to data warehouse. Coding in Java, HTML, CSS using Tomcat and Eclipse.

ETL Developer, Data Group 2009 - 2010

- ▸ Design, develop, and test ETL processes for Oracle-based data warehouse. Coding in SQL, Unix shell, and python.

Independent Contractor (New York, NY)

Self-employed Jul 2009 – Dec 2009

Excel.NET Risk Analytics

- ▸ Conversion of Excel VBA financial risk analytics to VB.NET DLLs exposed as COM servers. Coding with LINQ (.NET 3.5 sp1).
- ▸ Extensive testing and debugging. Developed installation programs. Produced service configuration for commercial delivery via Internet.

Access 2007 Developer

- ▸ Maintenance of Access 2007 application for marketing contacts for telecommunications client. Load data, add features, debug existing functionality.

Django Developer

- ▸ Volunteer developer on micro-finance volunteer management system. Coding in Django, Python, Unix.

KBC Financial Products (New York, NY)

Software developer, VP, Nov 2003 - Nov 2007

Front Office Rapid Application Developer - RadTech team

- Hands-on developer: analyze problem, discuss with business, code solution, release to business.
- Excel, VBA: bulk entry trade tools (CDO, CLO); XLA library; Moody's rating model app for CDO deals; non-mark-to-market P&L; pivot table analytics of trader books; maintain and present CDO data components; client report generation and distribution (FTP, email).
- C#: integrated Moody's CDO analytics into workflow application; server process to maintain CDS spread curves
- C++: ported CDO analytics from Windows to UNIX to integrate in enterprise app.
- Stack: MS SQL Server, Sybase, and Oracle; Excel with VBA and pivot tables; python and C#; SQL Server DTS packages and OLAP Services; QuoteVision data; Imagine data.

Askari Risk Management (New York, NY)

Software developer, VP, Aug 1998 - Nov 2003

Software Developer - Financial Engineering Group (1999 –2003)

- Technical team lead managing two contractors, responsible for designing COM architecture for extensible analytics capability.
- Integrated analytics for bonds, equities, options, and forwards (FinCad); collateralized mortgage obligations (Chasen); option-embedded bonds (Kalotay).
- Developer in ODBC driver project; made YACC grammar for SQL-like queries against risk data.

Software Developer - Report Server Group (1998 –1999)

- Designed and implemented ATL-COM interfaces and components for distributed financial application on Windows NT.
- Designed and developed COM components for regression test suites.

Independent Contractor (Toronto, Canada)

C++ developer (1995 - 1998)

- Sybase database and DB-LIB; architectural and prototyping in [D]COM; integrating third-party libraries.

EDUCATION

University of Toronto

Honors B.Sc. in Cognitive Science and Artificial Intelligence, 1990

New York University

Diploma in Financial Risk Management, 1999

ONLINE COURSES

10gen Education

MongoDB for Developers (M101), Dec 2012

Udacity

Design of Computer Programs (CS212), Apr 2014

CONTESTS

Docker Hackathon, Oct 2014

Denver winner for project "Snake on a Plane" to allow network-isolated development with docker.

Al Zimmerman's Programming Contests, Delacorte squares, Jan 2015

Wrote simulated annealing code in python/cython, C++, scala, and julia to calculate Delacorte squares. Finished 21st in world, 5th in USA.

TECHNICAL EDITING

O'Reilly technical editor, Aug 2009

High Performance Python (not published)

O'Reilly technical editor, May - Aug 2012

Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython (Oct 2012)

Brainbench Python 3.3 Test Validator, Mar - Aug 2013

O'Reilly technical editor, Aug - Sep 2014

Python for Finance: Analyze Big Financial Data (Dec 2014)

OPEN SOURCE

https://stackoverflow.com/users/10293/hughdbrown

https://github.com/hughdbrown