

# Hugh Brown

Denver, Colorado  
hughdbrown@yahoo.com

## WORK EXPERIENCE

### **Absio** (Highlands Ranch, CO)

Software Developer, Feb 2015 - Apr 2015

- ▶ Python/flask/redis, Amazon AWS/ansible stack on server cryptography application.

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

Senior Software Developer, Dec 2009 - Feb 2015

- ▶ Evaluate deployment and continuous integration technologies for developer workflow.
- ▶ Develop custom data visualization tools in python.
- ▶ Design, develop, and test ETL processes for Oracle-based data warehouse.
- ▶ Develop and maintain flask and pylons server applications.
- ▶ Develop application for devices (browser, Android, IOS) that updates disconnected data.
- ▶ Enhancements for Java/Tomcat web-based UI to data warehouse.
- ▶ Server: pylons, flask, selenium, Hudson/Jenkins, rake.
- ▶ Amazon AWS, docker, vagrant, python-boto; jenkins, mongodb, Apache.
- ▶ Client: HTML5; CSS3 with sass; JavaScript with jQuery, backbone, Google closure, underscore.js.

### **Risk Analytics Independent Contractor** (New York, NY)

Self-employed Jul 2009 – Dec 2009

- ▶ Created financial risk analytics as VB.NET DLLs with LINQ.

### **KBC Financial Products** (New York, NY)

Front Office Rapid Application Developer, VP, Nov 2003 - Nov 2007

- ▶ 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

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

## EDUCATION

### **Galvanize**

Data Science Immersive Program, Oct 2015

### **New York University**

Diploma in Financial Risk Management, 1999

### **University of Toronto**

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

## ONLINE COURSES

### **Udacity**

Introduction to Machine Learning (UD120), May 2015

Design of Computer Programs (CS212), Apr 2014

### **10gen Education**

MongoDB for Developers (M101), Dec 2012

## CONTESTS

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

Wrote simulated annealing code in python/cython to calculate Delacorte squares. Rewrote three times (C++, scala, and julia) to run code faster. Finished 21st in world, 5th in USA.

### **Docker Global Hack Day #2 Hackathon**, Oct 2014

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

## TECHNICAL EDITING AND WRITING

### **O'Reilly technical editor**, Aug - Sep 2014

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

### **Brainbench Python 3.3 Test Validator**, Mar - Aug 2013

### **O'Reilly technical editor**, May - Aug 2012

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

### **O'Reilly technical editor**, Aug 2009

*High Performance Python* (not published)

### **Computer Language software review**, Aug 1991

*Like a Version* Review of current version control systems: MKS RCS, PVCS, Burton TLib, Sourcerer's Apprentice.