

BRAD LUCAS

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OVERVIEW

I am a software developer and architect with extensive experience developing systems for financial, technology and new media firms. For the last five years, I have either consulted to financial firms or have been a technical co-founder in several technology startups. Early in my career I built and sold a popular screen capture program for Windows called SnapShot. Later, at Fidelity Investments I built systems for the portfolio management division. Following Fidelity, I moved to New York and have worked on projects for Wall Street firms; Goldman Sachs, JP Morgan, Lehman Brothers and Bear Stearns.

SUMMARY

- Experienced entrepreneur, software developer, team lead, architect, project manager and technical consultant
- Developer of the Union Gaming Equity Research Publishing System and EximForce's Trade Finance platform
- New media web development for Coca Cola, Target, AMEX and the New York Times
- Co-founder with Random Walk Analytics, Push Mart, Voice Trading, Gift for a Goal, FannedOut and Anywhere Enterprises
- Java Application development experience building system for Bear Stearns, Lehman Brothers, JP Morgan and Goldman Sachs
- Seven years building Portfolio Management and Research systems for Fidelity Investments

EXPERIENCE

ActionX/Xaxis (New York, NY)

November 2015 to Present

Director, Software Engineering

AdTech

Managing a development team responsible for the ActionX data products. We support the business by processing all event data in a timely manner while allowing users to query and report through a full-featured console interface.

Our technology stack includes Clojure, Java, Python/Flask, JavaScript/Angular running on AWS and Heroku. For data storage, we are using Redshift and Postgres/RDS. Our data pipeline utilizes Hadoop in addition to several in-house domain specific systems.

With a heavy focus on Clojure we are moving several Java and Python applications to Clojure as part of an internal refactoring and rebuilding effort with a goal of 100% Clojure across all systems.

Beacon Hill Technology Solutions, Inc. (New York, NY)

April 2009 to November 2015

Software Development Consultant

Independent Software Development

Providing software development, architecture and technical consulting to client firms.

Specializing in Python, Clojure and Java

Working primarily as developer, team lead, architect and with some consulting CTO roles.

Representative new media projects for Coca Cola, AMEX, Target and New York Times Digital

Representative system development projects:

BookSquire	Library account management system with notifications.	Python
Random Walk	Finding relationships between social media events and markets.	Clojure, Python
Push Mart	An online selling platform for sellers marketing to their social networks.	Python
StatusBlaster	System for posting to multiple social media accounts simultaneously.	Python
Voice Trading	Technical integration between a voice recognition system and an order entry system.	Python
Gift for a Goal	An innovative financial gifting site for facilitating the gifting of money to 529 plans.	PHP
FannedOut	Sports quiz start up. Sourced game data from MLB using Clojure.	Clojure, PHP
Trade Finance Market	Market platform for factoring invoices for international trade. http://tradefinancemarket.com/	Python
Union Gaming Research	Developed the firm's equity research publishing system.	Python
Amazon S3 Copy Tool	s3cp http://developer.amazonwebservices.com/connect/entry.jspa?externalID=3124	Java
GitHub	https://github.com/bradlucas/	Clojure, Python, Java

Bear Stearns/JP Morgan (New York, NY)**Java Architect/Developer**

Part of the global development team for a new Cross Margin system
Team lead of the New York software development team
System development to extract data from current Risk System into the new Margin system
Reconciliation system for verification of data transfer
Architecture and development of a test framework for Syncova Web Services

October 2007 to April 2009
Investment Bank/Prime Brokerage

JP Morgan (New York, NY)**Java Architect/Developer**

Part of a three-person team building and extending the Investment Bank's Single Sign-On (SSO) system. The Janus project currently protects over 200 internal desktop and web applications within the IB. The system consists of plug-ins for Apache, IIS and J2EE application servers for authentication and a backend system for managing entitlements.
Introduced the Spring Framework and developed the Janus Dashboard suite for monitoring system statistics, sign-on failures and system audit information.
Worked as an adviser on moving Struts applications to the Spring Framework.
Built a comprehensive testing framework on top of JUnit, DBUnit and JWebUnit that covered the entire project's feature set. The framework has enabled the development team to systematically test all variations of the authentication plug-in as well as the entire backend system and database.
Worked on the development of the project's new filter for IIS (C++).
Extended the Janus Web Services module using Axis 2.

July 2006 to September 2007
Investment Bank/Identity Access and Management

BNP Paribas (New York, NY)**Java Architect/Developer**

Front-desk environment for a Hedge Fund Trading System (*HFTrader*)
Architect for a new Web Services Framework for *HFTrader* using Axis/Hibernate/Ibatis
Development of Authorization, Authentication, Pricing and Position services.
Shared component API for Database Access, XML messages and Services
Porting of large C++ Windows client to use new Java services layer.
Java Swing application for viewing Fund prices.
Weekly Java mentoring talks for C++ developers on the team.

May 2005 to July 2006
Fund Derivatives

Goldman Sachs (New York, NY)**Senior Java Developer**

Front-desk environment supporting the Stock Loan trading desk.
Trading desk support, performance issues and code re-factoring.
Equilend Securities Lending Markup Language (XML).
Used the Castor open source data binding framework to map XML messages to Java objects.
Stock Loan functional areas -- Contract Comparison, Mark to Market, Recalls/Returns.
Java Swing application to mark Recalls and Returns.
J2EE development under Weblogic.
Motif application maintenance.
Java, Ant, Eclipse, Tomcat, Weblogic, JMS, Perl, Sybase, CVS, Castor

February 2004 to July 2004
Prime Brokerage

Anywhere Enterprises, Ltd. (New York, NY)**Principal/Co-founder**

Co-founder and President responsible for business development and project management for the company.
Server-side Java J2EE development for the creation of a file storage and sharing system.

October 2003 to May 2005
Digital Media Distribution Startup

Lehman Brothers (New York, NY)**Senior Software Developer**

Front-desk Fixed Income environment for Structured Credit Risk desk.
Rebuilt Structured Credit Risk Aggregation system improving response time in the order of 300%.
Rewrote and consolidated Sybase stored procedures, data feeds and user interface code.
Developed an Excel add-in for the Risk/Product Control department.
Developed web-based Risk Reporting for heads of Fixed Income

October 2002 to October 2003
Structured Credit Trading Desk

Beacon Hill Software, Inc. (Boston, MA)

October 1991 to October 2002

Founder

Software Development Consulting

Developed and marketed a Financial Research Publishing system to sell-side firms
Developed software for Beyond, ProCD, MathSoft, CA, Linguistic Technology, and Information Mapping.
Developed and marketed Windows screen capture program *SnapShot for Windows*.
Developed innovative Pen-based systems for Vectis and Note Systems.
Participated in seven early stage technology startups.

Fidelity Investments (Boston, MA)

January 1994 to November 2001

Senior Software Developer and Architect

Equity Research/Portfolio Management

During a 7-year tenure, worked with increasing responsibilities on several innovative and leading-edge, large-scale projects from conception to rollout. Roles included software architecture, design, development, setting code standards, mentoring, project management, working with business analysts, requirements gathering, technology recommendations and setting system support guidelines. Architect and lead developer for Fidelity's internal financial research publishing system, *Research Reports*. The system is used by all of Fidelity's portfolio managers and research analysts to create, publish, disseminate, review and analyze all internal research. Co-author of the *Wall Street Models* financial information protocol. A proprietary protocol used to gather and distribute valuable sell-side research financial models directly into Fidelity Investments from top-tier sell-side firms. Senior Architect and team lead for the *QuickNote* financial research publishing and notification system. *QuickNote* is a lightweight and complete solution for financial analysts and portfolio managers to communicate short financial notes quickly. Designed the architecture for Fidelity's in-house *Global Meeting Scheduler*. The system supports scheduling company visits to Fidelity analysts in Fidelity offices worldwide. Lead developer in moving the company's Unix-based *InView* portfolio management system to Windows.

AICorp (Waltham, MA)

May 1990 to October 1991

Software Engineer

Expert System Vendor

Member of AICorp's software development group responsible for *KBMS* and *FirstClass for Windows*, the company's Expert System Shell products.

Gold Hill Computers (Cambridge, MA)

September 1989 to April 1990

Software Engineer

Lisp & Expert System Vendor

Member of the professional services group working with customers integrating *Golden Common Lisp* and the *Gold Works Expert System* product with external software systems.

Executone (Darien, CT)

August 1988 to September 1989

Software Engineer

Digital Phone Systems

Real-time systems development in C and Assembler.

DataSwitch (Shelton, CT)

September 1987 to July 1988

Software Engineer

Network Monitoring Equipment

Real-time telephony systems development in C.

SPECIALTIES

Software development (methodologies, architecture, design and implementation), financial services systems (portfolio management, credit risk, prime brokerage, hedge fund trading and research)

TECHNICAL

Languages	Python, Clojure, Java, C/C++, C#, VB.NET, VB, SQL, Perl, Lisp, Scheme, XML, JavaScript, Unix Shell, VBA, Excel Macros
Development Tools	Emacs, PyCharm, Eclipse, Ant, Java, Visual Studio
App Servers	Nginx, Apache, Tomcat, Weblogic, JBoss, Microsoft IIS
Databases	MySQL, Sybase, SQL Server, Oracle, PostgreSQL
OS	Linux, Windows, OSX, Solaris
APIs	Web Services, J2EE, Swing, AWT, RMI, Servlets, JDBC, JSP, XML-RPC, SOAP, HTTP
Source Control	Subversion, Git, CVS, SourceSafe, ClearCase
Design	Object Oriented Analysis and Design (OOA/OOD), Design Patterns, Unified Modeling Language (UML)

EDUCATION

University of Bridgeport, Bridgeport, CT May 1987
Bachelor of Science Computer Engineering
Minors Electrical Engineering, Math and Music
