

Zachary M3ntez Skolnik

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Skills

Development: Ruby (on Rails), Java, C++, C# (ASP.NET), Python, JavaScript, Objective-C
Testing: Selenium (WebDriver, Grid), Cucumber, RSpec, JUnit, NUnit, pytest, Jasmine, Gatling
Database: MySQL, PostgreSQL, MS SQL, GemFire, MongoDB, KDB
Platforms: Mac, Linux (Ubuntu, CentOS, Raspbian), Windows, iOS
Middleware: FIX, TIBCO Rendezvous

Experience

21 Inc *Consultant* New York 2016

Integration tested bitcoin payment channels with Filesystem in Userspace on Raspbian, an Ubuntu Jenkins node, and Mac
Added the ability to automatically determine or configure time zones
Integration tested marketplace publishing, searching, and buying with on-chain and off-chain transactions
Tech Stack: Python, pytest, Bash, Raspbian, Ubuntu, Mac, Jenkins, Git

REDI Global Technologies *Principal Software Engineer in Test* New York 2015

Wrote BDD tests for spread trader algorithm
Automated deployments and setup servers
Mentored two experienced Software Engineers in Test
Created our take-home test and take-home project, interviewed candidates, served on recruiting committee
Tech Stack: Java, Selenium, Cucumber, Bash, Chef, Jenkins, PowerShell, CentOS, Gradle, Sybase, Git
Code sample: <https://github.com/zskolnik/JSC>

ADP Innovation Lab *Lead Application Developer / Lead QA Engineer* New York 2014 – 2015

Pivotal in the successful delivery of GemFire persistence
Created a performance testing suite using Gatling
Improved stability in UI testing framework
Filed a utility patent for an Integrated Resource Tracking System
Instrumental in cross-pollination efforts, knowledge sharing, code reviews, general support, go-to person
Tech Stack: Node.js, Jasmine, Ruby 2, RSpec, Selenium Grid, Jenkins, Gatling, GemFire, MongoDB, SUSE Linux, Git

FreeAssociation *Developer* New York 2013 – 2014

Created responsive, CMS-driven websites for Time Warner Cable and Yingli Solar
Maintained websites for Ford and FreeAssociation
Developed an iOS app using CoreLocation services
Tech Stack: Ruby 2, Rails 3, HTML5, Sass, Susy, jQuery, CoffeeScript, MySQL, EC2, RDS, S3, Capistrano 2, iOS 7, Git
Portfolio: <http://www.connectamillionminds.com/share>, <http://www.yinglisolar.com>

Tycoon *Senior Software Engineer* New York 2012 – 2013

Developed a web application, and maintained a REST JSON API for iOS
Migrated from Amazon EC2 to Rackspace, automated deployments, and administered servers
Mentored two junior software engineers
Tech Stack: Ruby 2, Rails 3, Resque, RSpec, Selenium, PostgreSQL, Ubuntu 12.04 LTS, Capistrano 2, iOS 6, Git
Screenshots: <https://github.com/zskolnik/Tycoon>

Guggenheim Partners *Application Developer* New York 2011 – 2012

Developed Windows services and web applications for Guggenheim Securities
Architected a security master using Bloomberg Open Symbolology, and a cross-product trade data mart based on FIX
Interviewed, and helped train, three colleagues
Tech Stack: C# ASP.NET MVC 3, NUnit, Ruby 1.9, RSpec, Selenium, WatiR, SSAS, FIX 5.0, Capistrano 2, TFS

Nomura Securities *Fixed Income Technology Consultant* New York 2010 – 2011

Created the Market Data Server for Credit & Rates Analytics
Developed real-time and end-of-day price feed adaptors for Cross-Product Risk
Tech Stack: C++ (Boost, Poco), C# 3.0 (WPF), Java, TIBCO Rendezvous, GemFire, VB6, SVN

My Trade Wizard LLC *Founder* New York 2009 – 2010

Created software to automate trading systems

Advised a Friends and Family Group Account at Interactive Brokers

Tech Stack: Ruby 2, RSpec, Cucumber, Ubuntu 12.04 LTS, AutoIt, Windows Server 2008 R2, Git

Code samples: <https://github.com/mytradewizard>

SCT Capital Management *Programmer / Analyst* New York 2007 – 2009

Developed a library for historical and real-time market data from Deutsche Bank, Tick Data, and eSignal

Created a real-time P&L system for currency, commodity, fixed income, and equity index futures

Wrote an application for auto trading, and setup T1s from our co-located server to Deutsche Bank through BT Radianz

Tech Stack: C# 2.0 (WinForms), Ruby 1.9, MySQL, QuickFix, FIX 4.2

Screenshots: <https://github.com/zskolnik/SCT>

NetWIRC Inc. *Co-Founder / CTO* San Francisco 2006 – 2007

Created a web application for persistent group chat

Raised \$25K in seed funding, and managed two senior consultants

Tech Stack: Ruby 1.8, Rails 1.0, MySQL, Red Hat Linux

Screenshots: <https://github.com/netwire/screenshots>

Citadel Investment Group *Portfolio Finance IT Intern* Chicago Summer 2005

Worked with quants and traders on a mathematical model for normalizing overnight stock lending data

Generated custom signals for multiple trading desks based on trends in availability and pricing

Automatically generated a daily color report for senior management

Tech Stack: C++, Perl, Sybase, VBA macros for Excel

Lehman Brothers New York

Equity Data IT Intern Summer 2004

Created consolidated trade flow program, market impact service, and wrote scripts to crunch market data for a quant

Tech Stack: K, C++, XML, XSLT, HTML

Equity Risk IT Intern Summer 2003

Automated database archival, generated server-monitoring alerts, and created a KDB GUI in Java

Tech Stack: KDB, Java, TIBCO Rendezvous, TIBCO Hawk

Education

Massachusetts Institute of Technology Cambridge MA 2002 – 2006

Computer Science and Financial Management: Structure and Interpretation of Computer Programs, Artificial Intelligence, Probabilistic Systems Analysis, Technical Communication, Managerial Psychology, Economics, Accounting, Finance Theory, Options and Futures

Database Administrator for Microsoft iCampus project DomeView (PostgreSQL, PHP) Fall 2004

Publicity Chair for the Undergraduate Association Fall 2002 – Spring 2003

Other

New York Times Investing: Teenage Bulls See Profits in a Time of Anxiety September 23 2001

Conducted a follow up interview concerning the impact of 9/11 on teen investors

<http://www.nytimes.com/2001/09/23/business/investing-teenage-bulls-see-profits-in-a-time-of-anxiety.html>

New York Times In High School, Hallways Buzz With Stock Tips January 14 2001

Interviewed for an article describing how the Internet has empowered high school investors

<http://query.nytimes.com/gst/fullpage.html?res=9E0DE1DC173DF937A25752C0A9679C8B63>

Wall Street Journal Spending It, Investing It – Coming on Strong November 29 1999

Headline feature in an article about young investors

<http://online.wsj.com/article/SB942785816835228037.html>

Bilingual: speak Spanish