

SEAN B CUSACK

Friday, Sept 14, 2018

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Experience

- 17 years software development industry experience on all levels of implementation from systems, through database and networking, up to UX, primarily on UNIX
- 16 years financial industry data processing and team management experience
- 14 years academic experience teaching introduction to programming & languages
- 4 years as a committee chair, board member, or secretary-treasurer of an alumni assoc.
- 4 years experience running a startup company in the game-based learning industry

Software

- Architecture & design for financial systems and organizational support
- New products for clients, upgrades and patchwork with legacy systems of all sorts
- Automation mechanisms for system administration and support staff
- Technical documentation and functional requirement specifications

Coding

- C/C++/C#, Perl, Python/Django, Javascript/jQuery, Java, CSS, HTML, FORTRAN
- Database design for MySQL, MSSQL, sqlite, and custom databases
- Legacy remediation and interfacing with deprecated technologies
- Systems level, middleware, and UI; multithreading, parallel-processing

Finance

- FINRA Certification - [Series 7](#) and [Series 63](#) - November 2007
- Managed data processing infrastructure team, covering most financial data types: stocks, mutual funds, private placements; futures; options; pool & CMO mortgages; corporate, government, municipal bonds; currencies; commodities
- Managed real-time pricing feed data team: NASDAQ, Dow Jones, EUREX & more
- Senior Programmer on a \$50m financial data processing service
- Designed database conversion and comparison software at major banks
- Worked on quantitative analysis projects on secure co-lo servers

Management

- Project management of 20+ programmers, support staff, financial subject matter experts, and sysadmins across global time zones
- Managed multiple teams of 10-15 programmers, both in large scale processing of static security master data, and real-time binary pricing data
- Managed Nomination and Communications committees of 10-20 volunteers, employees, and officers, as an elected executive officer of a board

Legal

- As Secretary-Treasurer for a board, managed finances and taxes, including filing for 501c3
- Negotiated a three-party settlement with the Assistant Attorney General of NY State & Chair of the Cooper Union Board, regarding the Alumni Association's legal responsibilities
- Drafted documentation now part of a NY State Supreme Court finding; see [Exhibit A here](#)

Entrepreneurship

- Client relationship management and beta test client development
- Design and implementation of normalized data-driven curriculum interface system
- Kickstarter design, including script and prop construction

Instruction

- Curriculum design and instruction, both college level & internal corporate training
- Instruction in language syntax, lexing, parsing, and compiling
- Teaching languages such as C, C++, Java, Javascript, Python, and Perl

EDUCATION

BACHELOR OF SCIENCE IN ENGINEERING

The Cooper Union for the Advancement of Science and Art, New York, NY
Graduated Summa Cum Laude, GPA 3.8, 1998

HONORS

Cooper Union Alumni Association [Alumnus of the Year 2014](#)
Tau Beta Pi Engineering Honors Society, New York Iota Chapter, 1998

WORK HISTORY

The Cooper Union

CS102: Introduction to Computer Science

Assistant Adjunct Professor

Sept 2003 - Present

New Jersey Institute of Technology

CS280: Programming Languages

Adjunct Professor

Sept 2016 - Present

Deutsche Bank via Mthree Consulting

Legacy analysis, process remediation, system design, tools

Senior Software Engineer

July 2014 - July 2016

Learnosaurus Inc

Data-Normalized Educational Gaming Platform

President & CEO

April 2010 - April 2014

Jefferies & Co via Consumer Evaluation Systems Inc

C# Currency Transaction Database UI

Senior Software Engineer

May 2012 - April 2014

Bank of America - Merrill Lynch via Rose International

Financial Futures and Options

Senior Software Engineer

Sept 2010 - Jan 2012

Merrill Lynch

Quantitative Statistical Arbitrage / Automated Market Making

Senior Software Engineer

Sept 2007 - July 2009

Bloomberg LP

UI Infrastructure

Senior Software Engineer

2005 - Sept 2007

Market Data Feed Team

Senior Software Manager

2003 - 2005

Data-License Infrastructure

Software Manager

2000 - 2003

Data-License Infrastructure

Software Engineer

Aug 1998 - 2000

VOLUNTEERISM

Cooper Union Alumni Association, elected Secretary-Treasurer, Nominations Chair, Council

2012 – 2017

Co-Scoutmaster of Troop 999 at Icahn House West

2005 – 2007

Chief Fire Warden for 731 Lexington, Third Floor West, leading 10 wardens & searchers

2004 – 2007

Homework Help program at Icahn House West, Art Access program at Icahn House East

2003 – 2006

Red Cross, God's Love We Deliver, NYC Parks Dept, Habitat for Humanity

1998 – 2007

LANGUAGES

Passed [Japanese Language Proficiency Exam Level 3](#) - 日本語能力試験 - Dec 2017

HOBBIES

PADI Level 3: Rescue Diver, Drawing, Skiing, Cooking, Baking, Origami, Video Games, Piano, Japanese