SEAN B CUSACK

Wednesday, April 3, 2019

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https://www.linkedin.com/in/eruciform

Branding	"Creation and education." I bring an array of lived experiences sitting at both ends of the table for multiple technological, education, and business roles. I can communicate with many groups, as well as perform technically in multiple roles. I love to create practical systems and practical understanding, and to work with complex and interesting patterns.
Experience	➢ 17 years software development industry experience on all levels of implementation from systems, hardware, 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, hardware, 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: futures & options; stocks; pool & CMO mortgages; corp, govt, muni 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

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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

Company	Role	Dates
Nanotronics Co Full stack industrial microscope hardware control system	*Senior Software Engineer*	*Nov 2018 - April 2019*
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 - Dec 2018*
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 Eng. & Manager*	*Aug 1998 - 2003*

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 N3 - 日本語能力試験 - Dec 2017 - Aiming for N2 in Dec 2019

HOBBIES

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