SEAN B CUSACK

Sunday, April 8, 2018

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SUMMARY	➢ 19 years software development industry experience on all levels of implementation from systems, through database and networking, up to UX, on UNIX and Windows ➢ 4 years experience running a startup company in the game-based learning industry ➢ 14 years academic experience teaching introduction to programming in C and Python
INDUSTRY	➢ Software architecture & design for financial systems and financial organization support ➢ Management of teams 5-20, developers and non-developers, across global time-zones ➢ New products for clients, upgrades and patchwork with legacy systems of all sorts, and automation mechanisms for system administration and support staff
SKILLS	➢ C/C++/C#, Perl, Python/Django, Javascript/jQuery, Java, CSS, HTML, FORTRAN ➢ Database design for MySQL, MSSQL, sqlite, and custom databases ➢ Automation tools, systems data collection, and dashboard creation ➢ Legacy remediation and interfacing with deprecated technologies ➢ Systems level, middleware, and UI; multithreading, parallel-processing ➢ Projects at all phases: concept & design, implementation, release, and maintenance ➢ Technical instruction, curriculum creation, and tutorial development ➢ Tutoring, mentoring, and coordinating events with children ages 7-13 ➢ Event planning and adult volunteer management
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
CERTIFICATES	Passed the Series 7 and Series 63 - November 2007
LANGUAGES	Passed the Japanese Language Proficiency Exam N3 - 日本語能力試験三級 - December 2017
HONORS	➢ Tau Beta Pi Engineering Honors Society, New York Iota Chapter, 1998 ➢ Cooper Union Alumni Association *Alumnus of the Year, 2014*

WORK HISTORY

Deutsche Bank *via Mthree Consulting*		
Legacy analysis, process remediation, system design, tools	*Senior Software Engineer*	*July 2014 - July 2016*

➢ Financial and technical support staff automation tools
➢ Software design and implementation
➢ Project management of 20+ programmers, support staff, and sysadmins across global time zones

New Jersey Institute of Technology		
CS280: Programming Languages	*Adjunct Professor*	*Sept 2016 - Present*

➢ Instruction in language syntax, lexing, parsing, and compiling
➢ Teaching differences in languages such as C, C++, Java, Javascript, Python, and Perl

The Cooper Union		
CS102: Introduction to Computer Science	*Assistant Adjunct Professor*	*Sept 2003 - Present*

➢ Introduction to programming in C and Python
➢ Curriculum design and instruction

Learnosaurus Inc		
Educational Gaming Platform	*President & CEO*	*April 2010 - April 2014*

➢ Client relationship management and beta test client development
➢ Kickstarter design, including script and prop construction
➢ Software and database implementation of beta product

Jefferies & Co *via Consumer Evaluation Systems Inc*		
C# Currency Transaction Database UI	*Senior Software Engineer*	*May 2012 - April 2014*

➢ Web and native-Windows app development
➢ Development of UI to collate both realtime and static financial data
➢ MySQL and MSSQL table and query design

Bank of America - Merrill Lynch *via Rose International*		
Financial Futures and Options	*Senior Software Engineer*	*Sept 2010 - Jan 2012*

➢ Hardware and software system monitoring tools
➢ Security master and market real-time data merge on multiple platforms, used for legacy remediation

Merrill Lynch		
Quantitative Statistical Arbitrage / Automated Market Making	*Senior Software Engineer*	*Sept 2007 - July 2009*

➢ Co-lo financial trading code, working with Quantitative Analysts
➢ Real-time data collation across a wide range of products from databases to ITRS streams to market data

Bloomberg LP		
UI Infrastructure	*Senior Software Engineer*	*2005 - Sept 2007*

➢ Design and implementation of code behind the drag-and-drop UI used to create Bloomberg functions

Market Data Feed Team	*Senior Software Manager*	*2003 - 2005*

➢ Manager of one of three parser teams, 10+ devs, that write and maintain the systems that intake direct market feeds, including NASDAQ

Data-License Infrastructure	*Software Manager*	*2000 - 2003*

➢ Manager of infrastructure team, 7+ devs
➢ Write and maintain data collection and client delivery services
➢ Design and implement system monitoring services for static and real-time financial and sysadmin data

Data-License Infrastructure	*Software Engineer*	*Aug 1998 - 2000*

➢ Software development of data collection and formatting, client delivery, and system monitoring services
➢ One project produced net $55M income for the company

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

HOBBIES

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