# JON TEDESCO

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## SUMMARY

Student, developer, and researcher seeking a challenging, cutting-edge software engineering position at a company with a need for competitive technical skills, problem solving ability, adaptability, determination, and creativity.

## EDUCATION

**University of Illinois, College of Engineering**

**M.S., Computer Science** *May 2013*

GPA: 3.83

- Enrolled in accelerated 5 year combined BS / MS program
- Master's thesis modeling CoMoTo software similarity graphs as heterogeneous temporal & similarity graphs, to investigate and predict student collaboration patterns, jointly advised by Cinda Heeren and Jiawei Han

**B.S., Computer Science, Minor in Mathematics** *May 2012*

GPA: 3.98

- Senior Thesis titled *Efficiently Retrieving Relevant Pages for Fully-Qualified Entities*, advised by Kevin Chen-Chuan Chang
- James Scholar honors program, software engineering certificate, specializing in databases and systems

## AWARDS

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|---|---|
| **Jump Trading Scholar** | *2011 - 2012* |
| **Crowe Horwath LLP Outstanding Computer Science Student** | *2011* |
| **Daniel L. Slotnick Scholarship** | *2011* |
| **Dean's List** | *2008 - Present* |

## SKILLS AND COURSEWORK

**Current and Completed Coursework:**

Fundamental Algorithms, Machine Learning, Software Engineering Seminar, Software Engineering II, Cloud Computing, Computer System Organization, Software Engineering, Graph Theory, Graduate Compilers & Programming Languages, Text Information Systems, Distributed Systems, Theory of Computation, Database Systems, Operating Systems Programming, Data Structures and C++, Programming Studio

**Technical Skills:**

Java, C++, C, Python, JavaScript, C#, PHP, SQL, HTML5, CSS3, Ocaml, Ruby, Linux, Git, Subversion, Mercurial, and much more

## PUBLICATIONS

***CoMoTo – The Collaboration Modeling Toolkit*** *ITICSE '11*

By Charlie Meyer, Cinda Heeren, Eric Shaffer, and Jon Tedesco

***Developing Generalizable Principles for Object-Oriented Search Engine Interface Design*** *UIUC URJ Spring 2010*

By Jon Tedesco and Kim Cuong Pham

## EXPERIENCE

**DRW Trading Group, Chicago, IL**

***Software Engineering Intern*** *Summer 2011*

- Created open source NPAPI plugin *SockIt* to perform low-level networking using client-side JavaScript to improve performance and flexibility of the WebSockets implementation, and to allow JavaScript implementations of arbitrary networking protocols
- Studied performance and efficiency impact of Intel's new AVX instruction set for floating point operation intensive applications

**Bank of America, Chicago, IL**

***Technology Analyst Intern in Capital Markets & FX Options Ask/GUI Team*** *Summer 2010*

- Developed GUIs for large-scale applications used for reporting and documentation of Bank of America's FX and options trading in real time.
- Designed and implemented standalone code base for FTP reporting, and helped develop back-end of database-centric applications.

**University of Illinois, Urbana, IL**

***CS242 Programming Studio Undergraduate TA*** *Spring 2011 – Present*

- Leads multiple discussion sections, grades student submissions, and instructs students in programming practices, coding style, and substantive multi-language programming projects

***Undergrad CS Research Liaison for P.U.R.E.*** *Fall 2010 – Present*

- Recruits graduate and faculty mentors, undergraduates mentees, and acts as CS representative of college-wide undergraduate research organization PURE, **P**romoting **U**ndergraduate **R**esearch in **E**ngineering
- Promotes program through staff relations and presentations in mainstream undergraduate CS classes

***Software Developer for CoMoTo Project*** *Fall 2010 – Present*

- Rewriting interactive web-based collaboration visualization using JavaScript, d3.js, and CoMoTo API
- Maintains Python-driven web application used for analyzing student code submissions, detecting software similarity, and analyzing collaboration patterns of students in undergraduate classes throughout the department
- Implemented and maintains Java application for visually analyzing student collaboration patterns to detect cheating in undergraduate classes