

Daniel Pomerantz

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Birthdate: October, 18th 1985

Qualifications:

- Strong mathematical background particularly related to machine learning and probabilities.
- Knowledge in many programming languages including Java, C/C++, C#, SQL, Matlab, Fortran, Perl, JavaScript, HTML, Python, and Shell Scripting.
- Experience with asynchronous programming, GUI programming, unit tests, and debugging.
- Familiarity with OpenGL, Direct X, and Java3d
- Programming experience in both Linux and Windows environments
- Good communicator with people

Education / Research:

- MSc. in Computer Science at McGill University, degree granted February 2010 for thesis *Designing a Context Dependent Movie Recommender: A Hierarchical Bayesian Approach*.
- A paper with the same title was accepted and presented to AI/GI/CRV 2009.
- BSc. with honours in Math and Computer Science at McGill University, May 2007
- School of Computer Science *Dean's Excellence Award* for 2007
- Relevant courses taken in computer science at McGill include Algorithm Design (2 semesters), Introduction to Software Systems, Artificial Intelligence, Robotics, Machine Learning, Computer Graphics, Computer Vision, and Probabilistic Reasoning.
- Relevant math university level math courses include Calculus (5 semesters), Mathematical Logic, Linear and Abstract Algebra (5 semesters), Analysis(4 semesters), Probability and Statistics (3 semesters), Graph Theory, and Ordinary Differential Equations
- Graduated *Cum Laude* from Riverdale Country School, June 2003

Past Employment:

Software Developer Engineer at Microsoft: September 2009-current

- Working with WIRE extraction team to improve algorithms for gathering data from websites

- Mostly working in C#, but additional work with databases, C++, and batch scripting.
- Work has included GUI designs using Windows Forms, asynchronous programming, and much work with databases.

Research assistant at McGill University

- Along with Professor Gregory Dudek, improved a movie recommendation system designed to incorporate contextual information (summer 2007 – summer 2009).
- Worked with Professor Caroline Palmer on developing better interfaces in order to visualize data more effectively (winter 2006-summer 2007).
- Worked with Professor Brigitte Pientka on a modal theorem prover (summer 2006).
- Papers related to the movie recommendation system available on website.

Teaching at McGill University

- Course Lecturer for Comp 208 (Computers in Engineering) in Fall 2008.
- Teaching Assistant for Comp 206 (Introduction to Software Systems) in Fall 2007 and Winter 2008 and for Comp 208 in Fall 2007
- Tutored at the Math Helpdesk at McGill from fall 2005 until Summer 2007.
- Teaching Assistant for math 324 (Statistics) winter 2005.
- Instructed students in Robotics at *Be a Computer Scientist for a Week*, Summer 2008.

Network Programmer (intern) at Pragmatix, a partner of IBM and Microsoft: Summer 2005, 40 hours a week for 10 weeks

- Set up and helped to maintain many of their servers
- Learned many skills involved with networking

Content writer (intern) for New York Yankees Website at UltraStar: Summer 2000, 25 hours a week for 10 weeks

- Wrote articles for their website about both the Yankees and baseball in general
- Created a Yankees based baseball trivia game

Website designer (intern) for Westchester County Government Department of Information and Technology: Summer 2001 and 2002, 32-40 hours a week for 8-10 weeks

- Helped to create websites including a website for water quality and games to get kids involved with keeping cleaner water.
- Created a website designed to notify people about emergencies such as tornado warnings.

Hobbies:

- Chess Expert with USCF rating of approximately 2000
- Cooking especially Indian and Italian food.
- Playing basketball (shooting guard) and hockey (goalie)

*References available upon request