Zachary Hervieux-Moore

Contact

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Skills

Programming:

C, Python, Ruby, MATLAB

Web Development:

Web Frameworks:

Django, Ruby on Rails, Bootstrap

Software:

Git, Perforce, Puppet, LaTeX

Languages:

Awards

- The Gordon B. and Nancy R. Stewart, Jr.
- Dean's Scholar x 4
- Nellie & Ralph Jeffery Award in Mathematics x 2
- Edith Whyte Prize in Macroeconomics Theory
- The Annie Bentley Lillie Prize in Calculus
- Queen's Principal's Scholarship
- Governor General's Award

Extracurriculars

- Bartender at the Graduate Student Bar
- Regularly attend hackathon and startup
- Cofounded Queen's Code the Change programming during a one day event.

Profile

Proficient in many areas of advanced mathematics and electrical engineering such as signal processing, control theory, and statistical modeling. Keen interest in computer science and constantly keeping my skills at the bleeding edge. Whether it is a new web framework or a new efficient algorithm, I stay on top of the field. Continuously looking to apply my knowledge to the fields of economics and finance. Current focus of research is optimization theory and its intersection with computer science.

Education

Princeton University, Princeton, NJ

2016-present

—PhD Candidate in Operations Research and Financial Engineering

Queen's University, Kingston, ON

2011-2016

- -Bachelor of Science Engineering, Mathematics and Engineering, Systems and Robotics Option
- -Bachelor of Arts, Economics

Experience

Altera Corp. (now Intel PSG), San Jose, CA

2014-2015

Software/Hardware Engineer Intern

- -Maintained and improved internal test infrastructure.
- -Regularly coded Perl firmware and Diango web applications. Automated the deployment of infrastructure using Puppet.
- -Modernized the test infrastructure by upgrading the OS and refactoring code to utilize the latest stable release of various software packages.

Queen's University, Kingston, ON Relevant Coursework

2011-2016

- -Design project titled "Region Tracking in a Sequence of Images". Applied calculus of variations in order to achieve this. Developed an application that succesfully tracked the hand of a user from a webcam video and the outline of a bone throughout an MRI scan.
- -Course project titled "Applying Q-Learning to Flappy Bird". Achieved human-level performance by applying a reinforcement learning algorithm to the game Flappy Bird. Simulated the game and coded the algorithm in MATLAB.

- -Was a project manager for APSC 202. Involved teaching the engineering process to transfer students. Project was to create an Android application for a school design team.
- -Taught a tutorial for Calculus II (APSC 172) and Linear Algebra (APSC 174) to first year engineers.
- -Created a review packet for Calculus I (APSC 171) and gave a three hour crash course during the exam period.