

# Brandon Byskov

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## Summary

- **Self Motivated:** completed personal projects and independent academic research.
- **Love Learning:** completed many online courses and constantly read about technology.
- **Avid Programmer:** passionate about writing performant, correct and maintainable code.

## Education

### Computer Science with minor in Business (Honours B.A.Sc) 2010-2015

McMaster University, Canada

- Built and documented a VNC remote desktop viewer in Haskell, using TCP and X11 protocols.
- Optimized a ray tracer to scale using parallel processing across an AWS server instance.
- Built a MIPS CPU simulator in JavaScript with a web front end for visualization.

### Online Courses 2012-present

- Completed 14 university-level online courses. Done for personal interest through Coursera.org.
- Courses on machine learning, data science, distributed computing, business and economics.

## Experience

### Personal Research on Strong Artificial Intelligence 2012-present

- Creating a theoretical model of intelligent machines and developing mathematics to represent it.
- Combining personal investigative research with Aristotelian philosophy and modern AI ideas.

### Personal Project Summer 2014

- Built a web app in PHP and JavaScript that allows users to create a personal profile website.

### Web App Developer - McMaster University Summer 2012

- Developed heart failure health management software for University and Hamilton Health Sciences.
- Designed and implemented database, front end, and back end code that was used by hospitals.

### Personal Project in Artificial Intelligence/Computer Design 2010-2011

- Created a web-based storefront that automates optimal hardware component selection of desktop computers, based on individual customer budget and computing needs.

## Interests

- Cross Country running, Track and Field. Enjoy daily runs.
- Solving Project Euler problems in Haskell and C++. In top 10% of users for solving problems.
- Reading every day about new technologies, the tech industry, business and economics.
- Taught myself up to intermediate level German language.

## Languages

### Imperative

C++, C, Java,  
MATLAB, Python

### Functional

Haskell, ML, Scala

### Web

JavaScript, PHP,  
HTML/CSS

### Other

SQL, NoSQL,  
Assembly, L<sup>A</sup>T<sub>E</sub>X,  
MPI/OpenMP,  
OpenGL

Profile Website: <http://brandonbyskov.github.io>