Brandon Byskov

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Summary

- **Functional Programmer:** 2 years working with Haskell. Very strong with discrete math.
- **Love Learning:** completed many online courses and constantly read about technology.
- **Conscientious Engineer:** care about writing performant, maintainable and correct code.

Experience

Haskell Software Engineering Consultant **February 2016-present**

- Developing for multiple clients in Haskell with the Yesod RESTful web framework and PostgreSQL.
- Deliver features and solve git issues without supervision for medical services enterprise software.
- Architecting and building document management and templating software for a law firm.

Web App Developer - **McMaster University** **Summer 2012**

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

Personal Projects

Research on Strong Artificial Intelligence **2012-present**

- Developing mathematics and exploring theoretical issues around general artificial intelligence.
- Have written 30 pages so far towards an unfinished academic paper based on this work.

Profile Page Maker **Summer 2014**

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

Automated Computer Design Optimization **2010-2011**

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

Education

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

- Built and documented a VNC remote desktop viewer in Haskell, using TCP and X11 protocols.
- Optimized a C++ 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 systems, networks, business and economics.

Interests

- Cross Country running, Track and Field. Enjoy daily runs.
- Solving Project Euler problems in Haskell and C++. In top 4% of users for solving problems.
- Reading every day about software and hardware technologies, business and economics.

Languages

Imperative	**Functional**	**Web**	**Other**
C++, C, Java, MATLAB, Python	Haskell, Standard ML, Scala	JavaScript, PHP, HTML/CSS	SQL, Git, Subversion, Assembly, LaTeX, MPI, OpenMP, OpenGL

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