Steven Heidel | Résumé

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Education

University of Saskatchewan   **Saskatoon, SK**
B.Sc. (High Honours) in Computer Science, Minor in Mathematics   *September 2009–April 2014*

Related Work Experience

LinkedIn   **Mountain View, CA**
Software Engineer   *August 2014–Present*
○ Building new products for the Monetization team

Encore   **Toronto, ON**
Co-Founder and CTO   *March 2013–August 2014*
○ A four-person startup created through The Next 36 program
○ Developed server backend in Ruby on Rails, then rewrote it to be entirely non-blocking using Scala and Play
○ Used REST APIs to collect photos and videos from across the web and matched them up with local events
○ Wrote and implemented internal API spec for communication with the frontend iPhone app

University of Saskatchewan   **Saskatoon, SK**
Student Research Assistant   *July 2014–August 2014*
○ Assisted Dr. Artur Sowa, a professor in the Mathematics Department, on numerical simulations relating to the D-Wave model of quantum computation. (ie. Adiabatic Quantum Computing)
○ Optimized MATLAB algorithms to increase speed of the calculation of quantum state vectors by 100x

Supplementary Work Experience

University of Saskatchewan Student's Union   **Saskatoon, SK**
Vice President (Operations and Finance)   *May 2012–April 2013*
○ Oversaw the development and approval of the union's multi-million dollar budget
○ Created new procedures which cut in half the amount of time it took for clubs to be recognized or get funding

Elections Canada   **Prince Albert, SK**
Youth Relations Officer and Central Poll Supervisor   *April 2011–May 2011*
○ Encouraged young people to vote in the 41st general federal election by putting up posters and speaking to youth groups and high schools
○ In charge of 3 polls including supervision, set up, and resolving problems and conflicts

Honours and Awards

Computer Science Valedictorian: for academic achievement and involvement   *2014*

Queen's Diamond Jubilee Medal: for representing Canada at an international competition   *2012*

Chancellor's Scholarship: for being university entrant with highest average   *2009*

Millennium Scholarship: for strong academics and extra-curriculars   *2009*

Allan Blakeney Award: for political involvement throughout high school   *2009*

Greystone Scholarship: for high school average > 95%   *2009*

Technical Skills

Scala / Play Framework: Experienced in developing efficient and non-blocking applications using functional composition principles

Ruby / Ruby on Rails: Taught myself Rails when I was 17 to build web applications as a freelancer, was on core team of the most popular open source Rails CMS (RefineryCMS) with over 170 patches

C / C++: 3 times winner of local ICPC programming contest, top mark in operating systems class

Java: Class project "Login with QR Codes" Android app and server in Java on Google App Engine

Microsoft Office / Visual Basic: Placed 4th in the world for my category: "IT Solutions for Business"

Linux: Use almost exclusively, familiar with many tools including Vim, Git, SVN, and Bash

Prolog, Haskell, Coq: Familiarity with these different programming paradigms

LaTeX: This very document, view the source on my Github

Other Involvement

The Next 36   **Toronto, ON**
Entrepreneur   *April 2013–August 2013*
- Graduate of this summer institute which takes 36 of Canada's upcoming leaders and provides mentorship, instruction, and practical experience relating to entrepreneurship
- Received top marks in highly competitive and challenging classes on business

Skills Canada   **Ottawa, ON**
WorldSkills Champion   *April 2010–October 2011*
- The "Olympics of trades", a competition with categories ranging from construction to hairstyling
- Won at provincials for my category of IT Solutions for Business, also won two years in a row at nationals, which qualified me for the world competition
- Attended world competition in London and ranked 4th overall

University Learning Centre   **Saskatoon, SK**
Study Session Leader   *September 2010–April 2011*
- Assisted students who were struggling in Computer Science
- Provided workshops where they could ask questions and I would help them solve problems