Scott Olson

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Education

Bachelor of Science, Computer Science (Honours)   2011 – present
University of Saskatchewan, Saskatoon, SK
- Arts & Science Dean's List (2011 – 2013)
- Expected date of completion: May 2016

Experience

Research Assistant (NSERC)   May – Dec 2013
Human-Computer Interaction Lab, University of Saskatchewan, Saskatoon, SK
- Attended daily stand-up meetings and practised agile methodology by reporting and planning daily progress
- Developed research projects from scratch and worked on existing projects in the lab in C#, Java/Android, and some C++
- Guided research participants through studies

Web Designer and Developer   Summer 2012
Broderick Garden Centre, Outlook, SK
- Designed and developed a website to showcase inventory and classes taught by the owner
- Used tools and languages such as Jekyll, Ruby, and Markdown to my advantage

Landscaper   Summers 2007 – 2012
Broderick Garden Centre, Outlook, SK
- Installed underground sprinklers, sod, fountains, gardens, etc.
- General yard work and maintenance, including raking, weeding, mowing, and fertilizing

Skills

Languages
- Expert in Ruby and C; both used regularly since high school for personal projects
- Experienced at writing Java, C#, C++, Haskell, HTML, and CSS for school, work, and my own projects
- Learn programming languages and write compilers as a hobby; have a deep knowledge of programming language features, design and implementation
- Familiar with JavaScript, Python, Clojure, Lua, Assembly, Rust, Racket, Forth, Prolog, and played with many other languages

Tools
- Regularly use Git, Vim, ssh, and zsh; also familiar with SVN, Visual Studio, Eclipse, and bash
- Use Arch Linux almost exclusively on my own computers, but also experienced with Windows
- Proficient with relational databases such as MySQL and SQLite

Technologies
- Familiar with programming with HTTP, TCP, UDP, and IRC

Projects

Apricot   Jul 2012 – present
Personal Open-Source project
- Wrote a compiler and standard library for a new programming language called Apricot, similar to Clojure and Lisp, which compiles Apricot source code to Rubinius VM bytecode
- Written in Ruby and Apricot itself with language interoperability – Apricot is compiled to the same bytecode as Ruby and can call Ruby code directly
- Collaborated remotely with another open-source programmer over IRC

FastTap   Summer 2013
Human-Computer Interaction Lab project
- Developed an experimental Android painting application designed to study an innovative form of command selection for tablets, incorporating design requirements from the other authors of the research paper
- Guided research participants through the study to generate the essential data for the paper

Kinect Arms Table Application   Summer 2013
Human-Computer Interaction Lab project
- Modified an existing touch table application in C# for a Ph.D. student's studies to work over a network with tables in two separate rooms, using Microsoft Kinects to send live video of the user's arms to the opposite table
- Worked with the Ph.D. student to collect requirements. I was responsible for all the development and helped guide participants through the study

LeisureOnline   Summer 2013
Software Engineering class project (CMPT 370)
- Designed and developed an ASP.NET MVC 4 website to replace the city of Saskatoon's current leisure services website
- Worked in a team of four where we took turns acting as Team Lead and gained experience in managing a project, making time estimates, writing documentation, and ASP.NET

Extracurricular Activities

Volunteer

SCI-FI Kids Camp   Summer 2013
- Presented several projects to middle school kids for Computer Science outreach

Trick or Eat Food Drive   Oct 2011
- Collected food door-to-door for the food bank on Halloween

Programming Contests

Local ACM contests
- Placed 1st in novice category   Oct 2012
- Placed 2nd in advanced category   Feb, Oct 2013

ACM Rocky Mountain Regional
- Placed 19th/47   Oct 2012
- Placed 4th/37   Oct 2013

Achievements

University of Saskatchewan Undergraduate Scholarship   2013
  - 2nd year academic achievement

John and Shirley Smyth Scholarship   2013
  - 2nd year academic achievement

Undergraduate Student Research Award (NSERC)   2013
  - 2nd year academic achievement, chosen by a national organization
  - Allowed me to work as a research assistant over the summer

J.P. Tremblay Award   2013
  - 2nd year academic achievement in computer science

University of Saskatchewan Undergraduate Scholarship   2012
  - 1st year academic achievement

Centennial Fund Scholarship   2012
  - 1st year academic achievement

University of Saskatchewan Entrance Scholarship   2011
  - Grade 12 academic achievement