Rickard Lindberg

Mästarbacken 31, 129 40 Hägersten, Sweden

Formal Education

Linköping University, Linköping, Sweden **Aug'04 - Mar'10**

M.S., Computer Science and Engineering.
My master thesis was titled *A Template-Based Code Generator for the OpenModelica Compiler*. I rewrote the code generator for the OpenModelica compiler (a compiler for the Modelica language) to improve the design and make the compiler meet future needs.

Work Experience

Attentec, Linköping, Sweden **May'10 - Aug'15**

Attentec is a consulting firm specializing in software development. I was employed as a consultant and worked for the clients listed below.
Besides my consulting role, I was involved in educational activities. I helped organize events such as a code retreat with Corey Haines and an internal programing conference for our consultants. I also held workshops and presentations including a presentation on refactoring and test driven development (TDD), a workshop to teach the Haskell language, and a workshop to teach how to write a compiler.

Pentronic, Linköping, Sweden **May'15 - Jul'15**

I was brought in to extend the system test framework that I helped develop the last I was there. The extension allowed new system tests to be written for different but similar systems.
Languages/Tools: Python, Jenkins, SVN.

Kemrisk, Linköping, Sweden **Nov'14 - May'15**

The first part of this project was to write a document that described their current system and proposed a way to develop it further. The second part was to do the actual development. The development included extending a PHP application to meet future needs. It also involved working with the client to understand exactly what they wanted the application to do in the future. My role was a combination of software developer and project leader.
Languages/Tools: PHP, Jenkins, SVN.

Pentronic, Linköping, Sweden **Nov'12 - Dec'14**

I was a member of a team that developed an embedded system for measuring temperatures. A big contribution I made was to develop a framework for writing system tests that verified system level requirements.
Languages/Tools: C, Python, Jenkins, SVN.
Methodology: Automated testing, remote collaboration, code review.

FOI, Linköping, Sweden **Sep'12 - Nov'12**

I developed an RTX (real time extension to Windows) driver for an analog and digital IO card.
Languages/Tools: C, Haskell, Visual Studio, Mercurial.
Methodology: property based testing (QuickCheck).

Dreampark/Motorola, Linköping, Sweden **Jul'10 - Apr'12**

I was involved in the development of web based portals for set top boxes. I worked in multiple teams that customized portals for different clients.

Languages/Tools: Javascript, Jenkins, SVN.
Methodology: Scrum, pair programming, test driven development (TDD).

Vetenskapsrådet, Linköping, Sweden **May'10 - Jun'10**

I was a member of a small team that developed a web based application for creating and editing content for presentations. The content was used by a flash based visualizer to show presentations online.
Languages/Tools: Java, Spring, Hibernate, MySQL, Mercurial.
Methodology: Scrum, pair programming, unit testing.

ABB Industry Pte Ltd, Singapore, Singapore **Jun'08 - Aug'08**
Aug'06 - Jun'07

I was involved in the development of Information Portal IP800xA: a user interface system for ABB 800xA control system. I took a year long break from university studies to work here the first time.
Languages/Tools: C#, Visual Studio, Visual Studio Tools for Office.

Side Projects

FRP Arduino **Dec'14 - present**

FRP Arduino is a free open source software project that explores the functional reactive programming (FRP) paradigm on the Arduino. It involves writing a compiler for a language that allow us to program an Arduino using the FRP paradigm. I started work on this project for two reasons: I wanted to experiment with creating communities around free open source software projects and I wanted to explore if the FRP paradigm was a better fit for programming the Arduino than C.
Project homepage: https://github.com/frp-arduino/frp-arduino

Extended leave **May'12 - Aug'12**

Between two client projects I took an extended leave to work on more side projects and do some traveling. Side projects included the following:

- Org app, a GUI application written in Haskell to organize files.
- Codemonitor, a GUI application written in Haskell to automatically run tests as soon as files changed on disk.
- Photobox, an Android app to view Photos in a fashion similar to when you spread out a deck of photos on a table. Developed together with a college.

Trips:

- San Fransisco, USA: I visited a person whom I had remote pair programmed with. I participated in a week long event that she hosted to practice agile methodology.
- Prince Edward Island, Canada: I visited a person whom I had met at a programming event to teach some Haskell and to talk about programming.
- Tokyo, Japan: I visited a friend from university that now lives in Japan.
- Singapore: I visited a friend from my time in Singapore.

Timeline **Oct'08 - present**

Timeline is a cross-platform application for displaying and navigating events on a timeline. It is free open source software distributed under the GPL.
I initiated this project for two reasons: I wanted an application like this and I wanted a side project to learn from. It has been successful in both regards. Things I've learned by developing Timeline includes Python, SVN, Mercurial, unit testing, and in general how to develop an application for "real users" (During 2014, Timeline was downloaded around 1500 times per month.)

Project homepage: http://thetimelineproj.sourceforge.net

Interests

Besides programming, I'm also interested in various sports and exercise. That includes jogging, climbing, snowboarding, playing pool, and playing floorball. I occasionally also pick up the guitar.

Contact information

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