Erik Ihrén

Location: Stockholm, Sweden. © GitHub: @Siretu Email: erikihr@gmail.com Phone: (+46) 72 213 1206

EDUCATION

Bachelor's Degree Computer Science Royal Institute of Technology, Sweden

Expected graduation: October 2015

Major GPA: 3.92

Teaching Assistant, August 2014 - December 2014

WORK EXPERIENCE

Spotify

Software Developer, Sweden, June 2015 - August 2015

- Created a new message hub for Spotify's data infrastructure, handling billions of messages per hour using Crunch and Hadoop.
- Reduced execution time per hour by 85%, taking down the average time of one run from 1.5 hours to 15 minutes.

Ericsson

Software Developer, Sweden, June 2014 - December 2014

- Wrote Python scripts to automatically extract dependencies between the huge number of Ericsson projects.
- This removed the need to rebuild and test everything for every commit, which greatly increased performance in their continuous integration environment.

Domain Name Services

Summer Intern, South Africa, May 2013 - August 2013

- Implemented an asset registry system in their Django admin interface.
- Worked on automating several administrative applications and scripts.
- · Attended the ICANN and AFRINIC conferences.

Netnod

Summer Intern, Sweden, June 2011 - August 2011 and June 2012 - August 2012

- Extended Django's admin interface to pull arbitrary data from models.
- Used the Javascript library Flot to visualize the data compared to other models.

PROJECTS

Full portfolio can be found on my personal site: http://www.nada.kth.se/~eihren/

Cruiser Command

Spent three years continuously developing my own mod for Starcraft 2, played by thousands.

- Average rating of over 4.8/5 out of over 2000 reviews.
- Implementing advanced AI for a complex team-based strategy game.
- Working and fixing bugs in a code base with over 25,000 lines of my own custom code.

Kartobot

Built and programmed a mapping robot with two friends. Uses two rotating ultrasonic sensors to draw a realtime map of surrounding area.

- Implemented A* pathfinding algorithm in C
- Optimized algorithm for extreme memory constraints (10kB)
- Modified algorithm to use binary heaps to increase performance with 100x.

COMPUTER SKILLS

Languages

I'm experienced with Python, Java, C# and C/C++. I'm also familiar with a great deal of other languages like Lisp, Go, Haskell, Prolog, Ruby, Swift and Javascript.

Tools/Frameworks

I have experience with following tools and frameworks: Git, CAD, Django, MySQL, HTML/CSS, Bootstrap, AngularJS, Docker, Hadoop, Crunch and LaTeX.

PRIZES AND AWARDS

- Finalist in Swedish national programming competition at high school level.
- First place in Linköping University's case competition 2011.
- · Second place in Spotify's Hockey Programming Challenge.