

# Erik Ihrén

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## EDUCATION

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2012 - **Royal Institute of Technology, Stockholm**  
Master's Degree in COMPUTER SCIENCE  
Expected graduation year: 2017  
Major GPA: 3.92

## WORK EXPERIENCE

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<b>Ericsson</b>	Software Developer, June 2014 - December 2014 Worked on automating dependency extraction for Ericsson's entire RNC codebase. The work I did automatically figures out the impacted projects and automatically rebuilds and tests those when a commit is pushed. Also improved upon a general build support tool to simplify continuous integration.
<b>Domain Name Services</b>	Summer Intern, May 2013 - August 2013 Worked in South Africa on programming an internal asset registry in the Django admin interface for registering and keeping track of company assets. I also participated in the ICANN and AFRINIC conferences where I spoke to potential customers about dotAfrica.
<b>Netnod</b>	Summer Intern, June 2011 - August 2011 and June 2012 - August 2012 Developed a user interface with Python's framework Django to help visualize arbitrary data from databases. This was used to automatically translate and present data for Netnod customers in the Django Admin Interface. I came back a second year after that to optimize and maintain my work.
<b>KTH</b>	Teaching Assistant, August 2014 - December 2014 Worked as TA for the course Programming Paradigms where students learn about functional and logic programming in Haskell and Prolog.

## PROJECTS

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*Full portfolio can be found on [my personal site](#).*

<b>SuperWebRecorder</b>	Worked as a Project Manager and Programmer in a project with 8 other people for The Beta Family to develop their WebRecorder product that records users on websites for beta testing and usability studies. I focused on serializing all user interaction, along with site DOM changes that could then be saved in a database and replayed as a recording.
<b>Cruiser Command</b>	Spent three years continuously developing and maintaining a mod on my own for Starcraft 2 played by thousands of players with an average rating of over 4.8/5 out of over 2000 reviews. While developing Cruiser Command from start to finish, I had to solve interesting problems such as advanced Artificial Intelligence, complex math intersection formulas and tracking down bugs in a large code base.
<b>Kartobot</b>	Built and programmed a mapping robot with two friends. Using a tower with rotating ultrasonic sensors it was possible to measure the distance and use that to draw a 2D map of the room, while it was exploring using a pathfinding algorithm. I worked mainly on the tower and making sure the ultrasonic sensors were working properly. I also developed an A* algorithm in C for the pathfinding and ended up optimizing it by 100x.

## COMPUTER SKILLS

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<b>Languages</b>	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 and Javascript.
<b>Tools/Frameworks</b>	I have experience with following tools and frameworks: Git, CAD, Django, SQL, HTML/CSS and LaTeX.

## PRIZES AND AWARDS

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- 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.