Emil Gedda

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Work Experience

Aug 2016 – July 2017

Teaching assistant
KTH Royal Institute of Technology

Teaching assistant in DD1361: Programming Paradigms, an introductory course into different programming paradigms, such as functional programming in Haskell, and logic programming in Prolog. Regarded as the most educational among the Teaching Assistants that year, with extensive knowledge in all of the subjects in the course.

Summer 2016

Consultant
Student Academy

Working at PostNord (The swedish governmental postal service) using their equipment and software to electronically sort letters and packages.

Summer 2010

Software Developer
OpenRatio

Summer intern and developer of their Windows Phone platform, writing pure C# for their enterprise mobile platform. Their platform enabled clients to develop cross platform apps and manage said apps without any programming knowledge, using a platform-independent web interface.

Projects

Spring 2016

Wikipagestats
Project manager on a pro bono project for Wikimedia
URL: https://tools.wmflabs.org/wikipagestats/

As a part of the course DD1392: Software Engineering, my team developed a tool for Wikimedia Foundation. The tool, *wikipagestats*, allows a user to easily compare the page views between articles across all Wikimedia projects, such as the popular encyclopedia Wikipedia. My team finished the course with the highest grade, with a finished product which is still in use.

Summer and Fall 2016

Hattis
Spare time project
URL: https://github.com/EmilGedda/hattis

Hattis is a simple command line interface tool for the online programming problem judge, kattis. Hattis allows users to submit solutions and track the submission progress live, all from the command line. The tool is written in Haskell, exercising modern techniques regarding error handling and correctness.

Education

2018 – Present	**Master of Science** Computer Science *KTH Royal Institute of Technology*
2017 – 2018	**Master of Science** Computer Science Exchange studies in USA *University of Illinois at Urbana-Champaign*
2014 – 2017	**Bachelor of Science** Computer Science *KTH Royal Institute of Technology*

Publications

Spring 2017

Analysis of The Precision Time Protocol under different forms of system load
Bachelor Thesis
URN: urn:nbn:se:kth:diva-208493

Evaluted the most popular implementation of the Precision Time Protocol, IEEE1588, under different types of system load. This involved setting up a local network of devices and synchronizing their system clocks while stressing different subsystems of the connected devices. The results showed that the accuracy and precision of PTP suffers greatly when a client is under heavy load.

Computer Skills

Basic	Golang, MVC, MATLAB
Intermediate	python, css/html, LaTeX, JavaScript, x86 ASM, SQL, git, C#, Bash, Vim
Advanced	C11, C++17, GNU/Linux, Haskell, java, Prolog

Communication Skills

Native speaker	Swedish, Norwegian
Professional proficiency	English
Conversational	German