Harald Nordgren | Full-Stack Developer

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Experience

Cantemo Stockholm, Sweden

Sofware Developer

April 2016 - Present

Website/webserver development for media-asset management. Cantemo Portal is used by HBO, Disney and Apple, to organize video content. I do back-end development in Python (Django/Flask) in a containerized environment using Docker/Kubernetes/Vagrant. Front-end development in JavaScript (React, Backbone). Elasticsearch, PostgreSQL, Cassandra, PyCharm.

Master thesis

Title: Guided Transcoding for Next-Generation Video Coding (HEVC)

Description: Research at Ericsson in the H.265/HEVC video coding standard. I investigated methods for reducing complexity and storage requirements for adaptive streaming applications by up to 30%. I used Python and Platform LSF to run heavy simulations, C/C++ for improve the encoder and results exportation to Excel.

Education

Lund University, Faculty of Engineering (LTH)

Lund, Sweden 2009 – 2016

Master of Science in Computer Science Specializing in Software development. Java, C/C++, Matlab, Shell, Haskell

Specializing in Software development. Java, C/C++, Matiab, Shell, Hask

University of Illinois, College of Engineering

Urbana-Champaign, Illinois, USA

Exchange studies
Mathematics, Control theory, signal processing, databases

August 2013 – May 2014

Languages

Swedish: Native **English**: Fluent

JavaScript

Technologies and frameworks

Python Django/Flask (API design, HTTP requests, HTML templates, form data),

Webscraper for betting arbitrages, migrate music data from Spotify/Bandcamp to Rateyourmusic (Beautiful Soup, Splinter/ Selenium), Sonic the Hedgehog clone, machine learning

Scientiff, Some the reagenog clone, machine learning

React, Backbone, CSS, HTML, Chrome extensions (Movie downloader, automating web games, contributed to Web scrobbler)

C/C++ Contributed to qBittorrent (Boost, unit tests) and Qt projects,

implemented newsgroup/database, wrote malloc/free from scratch

Unix Shell scripting (curl, ssh, ffmpeg, awk), Clustering/microservices (Docker,

Kubernetes, Vagrant, Elasticsearch, Cassandra), virtualization (OS X, Ubuntu, Red Hat, CentOS, CoreOS, Alpine, Windows), package

management (npm, pip, brew, apt-get)

Miscellaneous Building software (Git, Grunt, Makefile, Jenkins), databases (PostgreSQL,

MySQL, Cassandra), Cloud (Heroku), Java (Concurrency, Swing), Matlab (statistics, image compression), Haskell, Perl (language processing), Ruby, MIPS Assembly, Batch script, LaTeX, Excel scripting, Maple