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A keen software developer with a data scientist's mindset and an artistic eye

Education

2010-2014 Master, University of Helsinki, Helsinki, GPA: 4.3.

Machine Learning and Algorithms

2006-2010 Bachelor, North University of China, Shanxi, China, GPA: 4.

Network Engineering

Master thesis

Title Cognate Discovery and Alignment in Conputational Etymology

Description This master thesis discusses two main tasks of computational etymology. First, finding cognates in multilingual text. Second, finding underlying correspondence rules by aligning cognates. You can find more information in the research project

etymon I participated when I wrote my thesis.

Bachelor Graduation Project

Title Design and Analysis of Computer Vision Software with OpenCV

Description This project aims to give a brief introduction level discussion about various image

processing techniques. It is built using C++ and OpenCV.

Experience

Vocational

2012-Present **Software Developer**, *IDT Messaging*, Helsinki.

Fullstack development across backend, frontend and Android client.

• Android Development:

- Presto: A cutting-edge chat application;
- Messaging SDK: An android SDK provides messaging capability to any application;
- Magicwords SDK: provides *Magicwords* integration to messaging-like applications;

O Backend Development:

 Magicwords Backend: Implement natural language processing algorithms in a Flask based backend using Python;

• Frontend Development:

 Magicwords online editor: Build an online editor to browse and edit the Magicwords data store using AngularJS and CouchDB;

2012 Research Assistant, University of Helsinki, Helsinki.

Subject: work in the etymology project, which applies information theory (Minimum Description Length) to etymology multilingual data set to get the underlying relations of languages in Uralic Language Family. The whole project is written in Java. I implemented two new models and was in charge of maintaining the project for several months.

2011 **Summer Internship**, Aalto University MI Group, Espoo.

 $\it Subject$: Develop an academic recommendation system, which can recommend papers to researchers based on the information of the users. I developed a special PDF reader using Qt and C++. The reader can capture the words on the screen with the displaying time of each. I also implemented all the protype recommendation algorithms in Python and MongoDB.

Miscellaneous

Hobby Project.

HSL Router: An easy-to-use android app for the public transportation system HSL in Finland. Has more than 6,000 downloads, but unfortunately not working anymore because service API updates. Hope I can find time to redo it and make it even cooler.

Computer skills

Mobile Android Backend Flask, CouchDB, MongoDB

Frontend Javascript, AngularJS, CSS3, Tools Emacs, Android studio, Git, Jira, HTML5 Jenkins, Linux

Languages

Mandarin Native

English Fluent

Finnish Learning

Interests

Literate I have been using this technique as much as possible from note taking to small Programming demo projects. Using Emacs and org-mode as a tool. Some samples can be found from my Github account.

Digital I'm always drawing. Recently started digital painting using Corel Painter and Krita. Painting Here is my portfolio at Deviantart.