U Chun (Jeff) Lao
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Experience

Software Engineer at Center for E-Commerce Infrastructure Development, University of Hong Kong Hong Kong November 2016 - now
Upgraded the e-commerce messaging software *Hermes* to Java 8 and developed the back-end of web client *Courier* for Hermes.

Education

University of Southern California Los Angeles, CA August 2013 - May 2015
Master of Science in *Computer Science* with concentration in *Intelligent Robotics*

Cornell University Ithaca, NY August 2011 - May 2012
Master of Engineering in *Electrical and Computing Engineering*

University of California, Berkeley Berkeley, CA May 2009 - August 2011
Bachelor of Science with double major in
Electrical Engineering and Computer Science, Engineering Physics

Selected Projects

Courier Web Client February 2017 - now
Web client based on the new version of *Hermes*, written in python 3.5 with *flask* and *PostgresDB*. Components of the client are dockerized and prepared for ansible deployment.
I co-design the back-end for the client and implement more than half of the code and test of the back-end.

Hermes Business Messaging Gateway November 2016 - now
Upgrade the open-sourced e-commerce messaging gateway *Hermes*, built by CECID, HKU back in 2007 for the HK government, from Java 6 to Java 8 and replace outdated dependency packages.
Significant contribution includes updating/ replacing most of the 20+ dependencies and rewrite part of the code affected by the upgrade.

Listsum, the movie and TV series recommender July 2015 - now
Web-based movie and TV series recommender.
This project uses ReactJS (replacing AngularJS at the beginning,) and neo4j, where the recommender is written in C++. It is currently under alpha testing.
Significant contribution includes reducing server response time from seconds to milliseconds.

Directed Research on Natural Language Processing summer 2014
Directed research at USC under Prof Kenji Sagae on parsing morphologically rich languages (SPMRL Shared Task 2014) with publication.
Focused on exploring the best segmentation in Hebrew and Arabic (dividing raw sentences without white spaces into sequence of meaningful words.) The result segmentation with potentially correct segmentation has a F-score 0.91, compare to the 0.62 for the disambiguated data set provided. Code written in Python.

Skills

Proficiency in: C, C++, Python
Experience with: JAVA, MATLAB, SQL, C#, Pascal, HTML, CSS, Javascript, LaTeX
Knowledge in: Go, Docker, ansible

Publication

A. Köhn, U C. Lao, A. Zadeh and K. Sagae, **Parsing Morphologically Rich Languages with (Mostly) Off-The-Shelf Software and Word Vectors**. In Proceedings of the 2014 Shared Task of the COLING Workshop on Statistical Parsing of Morphologically Rich Languages. 2014.

Language

Proficient in Chinese and English