Junchen(Jack) Zhang

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WORK EXPERIENCE

FACEBOOK | SOFTWARE ENGINEER INTERN

MENLO PARK, CA | FALL 2016

- Worked with the Data Infrastructure team
- Built a namespace capacity projection application in Python
- Predicted cluster level capacities to check healthiness of warehouse storage and compute

GOOGLE | SOFTWARE ENGINEER INTERN

NEW YORK, NY | WINTER 2016

- Worked with the Go language team and added multiple features to the Godoc using Go
- Discover and display package relationships through co-imports using data mining techniques
- Find important concrete types for each interface by doing type analysis using MapReduce

A9.COM | SOFTWARE ENGINEER INTERN

PALO ALTO, CA | WINTER 2015

- Worked with the advertising team and remodeled the data pipeline using Hadoop MapReduce
- Developed a client side metrics Javascript on Amazon.com that tracks users' behaviors on ads
- Aggregated results with Hive queries, visualized for analysis

RESEARCH EXPERIENCE

[1] Z.Tu, M.Crane, R.Sequiera, J.Zhang, J.Lin. An Exploration of Approaches to Integrating Neural Reranking Models in Multi-Stage Ranking Architectures. *SIGIR 2017 Workshop on Neural Information Retrieval (Neu-IR'17), August 7-11, 2017.* ARXIV, 2017.

RESEARCH ASSISTANCE | UWATERLOO

WATERLOO, ON | SPRING 2017

- Explored integrating CNN with Lucene in multi-stage ranking algorithm using DL4J
- Implemented near-duplicate sentences extraction of Wikipedia articles using Spark

RESEARCH ASSISTANCE | UWATERLOO

WATERLOO, ON | FALL 2014

- Ported a main-memory database management system to common Lisp

EDUCATION

Candidate for Bachelors of Computer Science and Business Administration Double Degree, University of Waterloo, Wilfrid Laurier University, Waterloo.
Sept. 2012 – Aug. 2017

SKILLS

Proficient Languages: Java, Python, C++, Go, C, Objective-C, Hive, SQL, Pascal
Frameworks: Hadoop, Spark, DL4J, PyTorch, Express, iOS, .Net, React
Web: HTML, Javascript, jQuery, Node.js, CSS, C#, PHP, Thrift, Protocol Buffer

PROJECTS (GITHUB.COM/MIRACLE1949)

Google GlassBoard - Hack the North
Web-based augmented reality built for Google cardboard that allows the user to interact with visual overlays. Utilized pixel tracking, WebGL, HTML5 canvas, OpenCV

Trail - Velocity Project
A web-based online experience sharing platform. Used Node, ReactJS, SQLite

UWCourses - iOS App
An IOS app for managing UW courses, timetables, and exam countdowns. Used Objective-C, core data, Event Kit