Josh Malina

Charlottesville, VA

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WORK EXPERIENCE

Data Scientist

CCRI - Charlottesville, VA - January 2016 to Present

Restructured natural language processing pipeline into discrete, independently running parts; benchmarked neural network based information retrieval algorithms against industry standards; implemented unsupervised entity extraction and disambiguation pipeline; implemented custom entity linking application for connecting entities in free text to external knowledge bases

Full Stack Developer, Founder

LaoshiList.com - Beijing - August 2013 to November 2015

Developed web application to connect foreign teachers and schools, students, training academies in Beijing for hire, tutoring, trainings; developed and maintained client relationships; managed marketing effort; interviewed foreign teachers

Front End Developer

CRM Factory - Beijing - November 2014 to May 2015

Wrote unit tested features and improvements to SaaS platform, collaborated with designers and back-end developers to create UI for image server

EDUCATION

Master's in Software Engineering

Harvard Extension - Cambridge, MA, September 2013 to May 2018

Bachelor's in Philosophy

Washington University in St Louis 2010

PERSONAL

AQCast.com

Trained a random forest to predict air pollution values in Beijing from historical pollution / current weather data

RESEARCH

Statistical Analysis of Pollution in China

Analyzed temporal trends in particulate matter concentrations in five cities in China

Comparison of Information Retrieval Algorithms

Measured search + recall performance of traditional term frequency weighted search algorithms versus embedding based and hybrid methods

SKILLS

Python (2 years), Scala (2 years), Docker (Less than 1 year), OrientDB (Less than 1 year), Javascript (2 years),

MySQL (3 years), MongoDB (2 years), Machine Learning (2 years)