

Experience

AI Engineer at HKAI Limited Hong Kong Apr 2021 - Now
Research and develop the forecasting and ads recommendation components with modern deep learning approaches for the video advertisement platform.

Software Engineer at University of Hong Kong Hong Kong Feb 2019 - Mar 2021
Design and implement the *Regbase* platform, which automatically collects financial open data and builds up a knowledge base.

Software Engineer at Throput Limited Hong Kong May 2018 - Jan 2019
Design and develop web application *fin.fm* that collects and analyzes financial open data.

Software Engineer at Center for E-Commerce Infrastructure Development, University of Hong Kong Hong Kong Nov 2016 - Mar 2018
Upgraded the e-commerce messaging software *Hermes* to Java 8 and developed the web client Courier for Hermes.

Education

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

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

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

Selected Projects

Online Ads Impression Forecast Apr 2021 - Now
Design and implement an ads impressions (number of views) forecast system as a micro-service component.

Regbase Platform Feb 2019 - Mar 2021
The Regbase is a platform that collects financial open data in Hong Kong and composes a knowledge base on this information for other downstream applications. Responsible for the design, implementation and deployment of the platform as micro-services serving RESTful APIs and and GraphQL with Docker on Kubernetes. Also contributed to the data collection pipelines and NLP data processing using Airflow, Django, flask, and neural network based NLP tools like transformers with PyTorch.

Fin.fm May 2018 - Jan 2019
This web application collects publicly available financial information, processes and analyzes the loosely structured data with NLP and machine learning techniques.
Contributions include co-designing and developing the backend infrastructure and NLP / ML processing, as well as part of the web front-end development. Implemented in Python with Docker.

Courier Web Client Feb 2017 - Mar 2018
This web client based on the new version of *Hermes*, written in Python with flask and PoestgresDB. The client is divided into dockerized microservices and ready for ansible deployment.
Contributions include designing and implementing some of the back-end microservices for the client.

Hermes Business Messaging Gateway Nov 2016 - Mar 2018
This project implements a new version of the open-sourced e-commerce messaging gateway *Hermes*, built by CECID back in 2007 for the HK government, upgrades the Java version from 6 to 8 and outdated dependencies.

Skills

Proficiency in: C, C++, Python

Other programming languages: GO, JAVA, MATLAB, SQL, C#, Pascal, HTML, CSS, Javascript, L^AT_EX

Experience with: Kubernetes, Docker, Apache Airflow, BERT

Knowledge in: AWS, Microsoft Azure, Docker Swarm, Pytorch, Ansible, Hadoop

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.