

# Jianwei Hao

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## SKILLS

### PROGRAMMING

- Hadoop, Spark, Python, MySQL
- TensorFlow, PyTorch, MxNet, TF Lite
- Docker, Serverless, Kubernetes, VM
- Java, Play 2, JDBC
- Git, Linux, ROS, Agile Development

## EDUCATION

### UNIVERSITY OF GEORGIA

PH.D.

COMPUTER SCIENCE

2018 - Pres.

### UCAS

MBA

2012 - 2015

## RESEARCH

### UGA CLOUD LAB | RESEARCHER

May 2019 – Pres.

Work with **Prof. Kim** to research Cloud Computing, Edge Computing, Performance Optimization, and Deep Learning.

## COURSEWORK

### GRADUATE

Advanced Data Analytics  
Data Science  
Reinforcement Learning  
Machine Learning  
Cloud Computing  
Algorithms  
Database  
Distributed Systems  
Robotics  
Cyber Security

## RELATED LINKS

Personal website: [glennjw.github.io/cv/](http://glennjw.github.io/cv/)  
Github: [github.com/glennjw](https://github.com/glennjw)  
LinkedIn: [www.linkedin.com/in/glenn-jw-9812a617a/](https://www.linkedin.com/in/glenn-jw-9812a617a/)

## PROJECTS

- **Hadoop analysis:** Use Hadoop in AWS VM to analyze Pinterest posts, filter and analyze the topic related posts on statistics.
- **Image analysis:** Classify drivers' behavior based on driving images. Analyzing the images and training a CNN network model with TensorFlow. The accuracy reaches 96.7%.
- **Clinic Appointment Chatbot:** Schedule clinic appointment through chatting with a chatbot in Slack. Using Slack's REST API connect to AWS Lambda function. Chat messages are processed by Python and AIML, Schedules are completed by interacting with remote MySQL DB server.
- **Edge Sensing:** Analyze and provide solution to AI on edge project for detecting the organic carbon matter in the marsh soil. Integrate soil property sensors to Raspberry Pi/Arduino edge computing.
- **Robot Path Planning:** Implement A-star heuristic algorithm to plan the LiDAR robot path on ROS.
- **Distributed Database :** Build a distributed database system with consistent hashing in Java.
- **Kubernetes auto-scaling :** Use Kubernetes auto-scaling (horizontal) to handle high HTTP traffic.

## EXPERIENCE

**ERICSSON** Apr 2008 - Aug 2018

**JUL 2017 - AUG 2018 | SOFTWARE ENGINEER**

- Air Interface verification for new developed features on 3GPP standard systems: LTE, 5G, NB-IoT.

**AUG 2011 – SEP 2012 | SERVICE DELIVERY MANAGER**

- Be in charge of project implementation and management including risk, technique, customer satisfaction.

## PUBLICATIONS

- [1] J. Hao, T. Jiang, I. K. Kim, and W. Wang. An empirical analysis of vm startup times in iaas clouds. *IEEE CLOUD*, 2021.
- [2] J. Hao, P. Subedi, I. K. Kim, and L. Ramaswamy. Characterizing resource heterogeneity in edge devices for deep learning inferences. *SNTA*, 2021.
- [3] P. Subedi, J. Hao, I. K. Kim, and L. Ramaswamy. Ai multi-tenancy on edge: Concurrent deep learning model executions and dynamic model placements on edge devices. *IEEE CLOUD*, 2021.