

HUANG SONGLIN

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EDUCATION

BENg(CompSc), the University of Hong Kong Sep 2019 - Present
Major: Computer Science, **Minor:** Mathematics, Finance
Core Courses: Computer Vision, Natural Language Processing, Web Development, Quantum Computing
CGPA 3.72, Dean's Honors List 2020-2021

SKILLS

Deep Learning: Computer Vision, Natural Language Processing with Pytorch and Tensorflow
Machine Learning: Hyper-parameter Tuning, Drift Detection, Machine Learning Explainability, Data Pipeline
Data Analysis: Python workflow with Numpy, Pandas, Matplotlib, SQL, NoSQL, Big Data with Spark
Cloud Infrastructure: Microservices, Docker and Kubernetes, Kafka, RESTful API, OpenAPI
Full Stack Web: Frontend with React or Vue.js, Backend with Python or Golang
Programming Fundamentals: Linux, Git, Agile with Scrum, Java, Golang, C/C++
Mathematics: Linear Algebra, Calculus, Optimization, Probability, and Statistics

INDUSTRIAL EXPERIENCE

Machine Learning Platform Architect Intern Jun 2022 - Aug 2022
NVIDIA, Shanghai

- Improve the trustability of NVIDIA AutoML system by providing evidence from explainable AI methods
- Improve the reliability of AutoML system by integrating data drift detection
- Improve the stability of AutoML system by adding model service monitoring and auto-redeployment

RESEARCH EXPERIENCE

Research Assistant Feb 2022 - May 2022
Department of Mathematics, the University of Hong Kong
Supervisor: Chair Professor Michael Kwok Po NG

- Study the application of meta-learning such as neural process, and generative model such as variational auto-encoder on the near-cold start recommendation systems.

HKU CS Summer Research Assistant Internship Jul 2021 - Aug 2021
Department of Computer Science, the University of Hong Kong
Supervisor: Professor W. Chuan

- Propose new online inference acceleration framework for graph neural network on dynamic graph based upon the locality of message-passing models.

TEACHING EXPERIENCE

Student Teaching Assistant Sep 2021 - Dec 2021
Department of Computer Science, the University of Hong Kong
Course: COMP2396 Objected-oriented programming and Java
Instructor: Dr. Wong, Kenneth K.Y.

- Assisting question answering in weekly tutorial session.

Student Teaching Assistant Sep 2021 - Dec 2021
Department of Mathematics, the University of Hong Kong
Course: MATH2211 Multivariable Calculus
Instructor: Dr. Tak Wing CHING

- Holding weekly Revision Classes and Q&A sessions, preparing slides by Latex, and visualizations by Matplotlib.