

Rui Zhou

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EDUCATION

ETH Zurich, Switzerland Master of Science in Electrical Engineering and Information Technology	Sept 2019 - Current GPA: 5.25/6.0
University of Zurich, Switzerland Mobility/Exchange Student in Software Systems	Sept 2021 - Current
Beijing University of Posts and Telecommunications, China Bachelor of Engineering in Telecommunications Engineering with Management	Sept 2015 - June 2019 Top 1 out of 294, GPA: 96/100
Queen Mary University of London, United Kingdom Joint Programme with BUPT	Sept 2015 - June 2019 First Class Honor Degree

EXPERIENCE

G-20 Strategies AG - Tech Team DevOps Developer, Internship	December 2021 - May 2022 Zurich, Switzerland
<ul style="list-style-type: none">• Use Elasticsearch/Filebeat/Logstash to collect trading logs and system metrics for analysis;• Manage Kubernetes Cluster to automatically update the image. (CI/CD)• Responsible for Nginx Site Reliability;	
IBM China Development Lab - CIO Team Big Data Engineer, Internship	Nov 2018 - April 2019 Beijing, China
<ul style="list-style-type: none">• Participate in designing and developing the data ETL jobs using streaming in Big Data;• Use Python to write scripts to clean up the original order data in batches, handle character exceptions and encapsulate them into a custom format;• Making a Java tool for consuming the data in Kafka and writing it to HDFS;• Analyze offline data through Spark SQL and use Apache-Flink to process real-time data streams;	

PROJECTS

An RPC DRAM Implementation for Energy-Efficient ASICs Prof. Luca Benini, ETH Integrated Systems Laboratory	Jul 2020 - Nov 2020
<ul style="list-style-type: none">• Get to know the protocol by reading the Etron Technology RPC DRAM datasheet;• Draft an architecture for our RPC DRAM controller;• Verify the implementation in simulation;• Synthesize the controller and the surrounding system; create area and timing reports;• Implement the system on an ASIC and tape it out(http://asic.ethz.ch/2021/Dogeram.html)	
Intelligent Control on Traffic Nodes, Tsinghua University Future Transportation Lab, Tsinghua University	Feb 2017 - Jan 2018
<ul style="list-style-type: none">• Constructed the simulation environment using SUMO and visualized the road condition;• Programmed to compute the jam condition score on each node using Python(numpy, scipy, pandas);• Conceived to build a network for self-reinforcement learning and optimize the road condition;• Summarize the work and publish it in the journal	

PUBLICATIONS

Cloud Computing Security and Privacy	International Conference on Big Data and Computing	2018
Network-wide Traffic Signal Control based on Discovery of Critical Nodes and Deep Reinforcement Learning	Journal of Intelligent Transportation Systems	2020

TECHNICAL SKILLS

Software Programming: Java, C++, Python, C, C#, Go
Hardware Programming: SystemVerilog, Innovus

Web Technologies: HTML, CSS, JavaScript
Miscellaneous: PostgreSQL, Azure DevOps, Git, Docker, Kubernetes, ELK

RELEVANT COURSEWORK

Computer Science: Machine Learning, Data Structures and Algorithms, Databases, Distributed Systems, Computer Networks, Computer Architecture, VLSI Design
Mathematics: Discrete Maths, Distributed Computing

POSITIONS OF RESPONSIBILITY

Secretary General, Association of Chinese Students and Scholars in Zurich: 2020 - 2021
Responsible for personnel statistics and information collection for various activities
