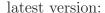
## Zhansong Li

lizhansong@hvariant.com GitHub: github.com/hvariant

LinkedIn: linkedin.com/in/zhansongli





#### Education

#### Australian National University

Master of Computing

- GPA: 6.25/7.0

- Specialisation: Artificial Intelligence

Canberra, Australia Feb. 2016 – Nov. 2017

## Sun Yat-sen University

Bachelor of Science in Computer Science and Technology

- GPA: 3.7/4.0

Guangzhou, China Sep. 2011 – Jul. 2015

# Work Experience

#### • Integrated Research Ltd.

DevOps Engineer

Sydney, Australia

Dec. 2019 – Present

- Worked on supporting the deployment and monitoring of a new analytics platform based on AWS serverless technologies
- Worked with development teams to maintain and improve the AWS deployment process, including Jenkins scripts, infrastructure management, tag/branch management strategies, runbooks
- Added structured logging to AWS lambdas written in TypeScript and Python to enable log analysis such as correlation ID tracking with centralised log management
- Developed an aggregation and reporting service using Python which automatically generates biweekly reports about cost breakdown and user demographics

#### Software Engineer

Jan. 2018 - Nov.2019

- Worked on the on-premise payments and unified communication monitoring software IR Prognosis, mainly using C++ and C#
- Worked on replacing the legacy build system with modern CMake which reduced build time for the on-premise software from 10 hours to 1 hour
- Added support for Cisco CSR 12.5 and Audiocodes Mediant SBC 7.20 monitoring for the on-premise software, including new metrics and call quality visualisation in the C# web GUI
- Worked on adding new merchant field and mapping rules for payment transaction records to enable merchant acquirers to monitor and breakdown transactions by merchants

# • Carbon Reduction Optimiser (ANU TechLauncher) Intern

Canberra, Australia Mar. 2017 – Oct. 2017

- Analysed building energy consumption data and identified several key performance indicators for building energy consumption
- Produced a model using Python and scikit-learn that can predict building energy consumption and breakdown based on a short survey

#### Certification

#### • AWS Certified Solutions Architect - Associate

Feb. 2020 - Feb. 2023

- Description: The AWS Certified Solutions Architect Associate exam is intended for individuals with experience designing distributed applications and systems on the AWS platform.
- Credential ID: AWS00697844

# **Projects**

# • Concurrent Garbage Collection in Java

- A more concurrent implementation of the RCImmix reference counting garbage collector for the research JVM JikesRVM
- Reduced pause time introduced with buffered reference counting while maintaining similar throughput by performing part of the stop-the-world phase concurrently

#### • Panoramic Stitching

 Developed a C++ program (based on OpenCV) to produce panoramic images based on videos

#### Skills

## • Programming Languages

- Proficient: C++, TypeScript, Python, C#, Java

- Familiar: Rust, Haskell

#### • Software

- Proficient: Git, Vim, Visual Studio, Jenkins, TeamCity

- Familiar: Ansible, Terraform