## YUNKUN (RICKY) LU

#### Carnegie Mellon University 2022, B.S. in Computer Science, Minor in Computational Finance

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■ Citizenship: New Zealand

nttps://github.com/PaperbagLife

#### **EXPERIENCE**

#### Software Engineer at Clockwork Systems, Inc Golang, Typescript, Vue, Python, influxDB, NCCL

🛗 July 2022 - Present

**♀** clockwork.io

- Worked with a team to optimize & accelerate networking fabric for AI/ML training.
- Set up and managed high-power-computing servers for RDMA workloads
- Worked with a team to design and program the UI platform for the software services.
- Made scripts and tools used daily by engineers, speeding up configuration flow by more than 80%.

## Software Engineer/EngProd at Arista Networks Python, Java, Go, Kubernetes

**#** June 2021 - Aug 2021

- Reduced CPU usage of bare-metal clusters by migrating existing service to run on Kubernetes
- Reduce space needed by database by 70% by reformatting excessive verbose logging into JSON string
- Automated CICD services by setting up a Spinnaker pipeline for Kubernetes

# Evaluating the Validity of Automatic Speech Recognition Technologies for Online Medical Counseling

Python, Google Cloud, Microsoft Azure, IBM Watson, CMU Sphinx

May 2020 - August 2020

- Conducted self-directed research
- Transcribed medical videos using Automatic Speech Recognition(ASR) APIs from Google, IBM, and Microsoft
- Evaluated the performance of the APIs using word error rate and Levenshtein distance
- Identified and evaluate factors that affect ASR performances

### **PROJECTS**

## Shop Simulation C#, Unity

H Jan 2021 - Feb 2021

- Created a fully animated 3D simulation for shoppers exploring a shop
- Employed Unity Navigation system for path finding and simulating avoidance between shoppers
- Generated heat map for most visited areas for common shop routes and help optimize shop layout

#### **EDUCATION**

Carnegie Mellon University B.S. in Computer Science, Minor in Computational Finance

**2018 - 2022** 

Pittsburgh, PA

GPA - 3.80/4.00

Notable coursework:

- Theoretical Computer Science
- Intro to Computer Systems
- Data Structures and Algorithms
- Mathematical Modeling
- Discrete/Continuous time Finance
- Artificial intelligence & Problem Solving
- Intro to Machine Learning
- Distributed Systems
- Computer Graphics

### **SKILLS**

Kubernetes	) $N$	CCL	Gola	ang
Python Vue		Typescript/CSS		
Serial/Minicom		Grafana		C/C++
Unity Go	Google Cloud API			
LaTeX				

### **INTERESTS/HOBBIES**

Computer Vision	on VR			
Game Design/Creation				
Speech Recognition Violin				
Accessibility support for games				
Video editing	Origami			

### **LANGUAGES**

English: Native Speaker Chinese: Native Speaker