

# YUNKUN (RICKY) LU

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

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📍 Palo Alto, CA  
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🔗 <https://github.com/PaperbagLife>

## EDUCATION

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

📅 2018 - 2022

📍 Pittsburgh, PA

GPA - 3.80/4.00

Distributed Systems, Artificial intelligence & Problem Solving, Design and Analysis of Algorithms, Mathematical Modeling

## EXPERIENCE

Software Engineer at Clockwork Systems, Inc

📅 July 2022 - Present

📍 clockwork.io

- Worked with a team to optimize & accelerate networking fabric for AI/ML training. Made scripts and tools used daily by engineers, speeding up configuration flow by more than 80%
- Made an utilities website hosting documentation, live cluster status and troubleshoot guides.
- Set up and managed high-power-computing servers for RoCE workloads using NCCL.
- Worked with a team to design and program the UI platform in Vue/Typescript for software services.

Software Engineer at Arista Networks

📅 June 2021 - Aug 2021

- Reduced CPU usage of bare-metal clusters by migrating existing service to run on Kubernetes. Setup CICD pipeline to deploy new builds automatically to Kubernetes.
- Reduce space needed by database by 70% by reformatting excessive verbose logging into JSON string.

## PROJECTS

Unity Shop Simulation

📅 Jan 2021 - Feb 2021

- Created a fully animated 3D simulation using Inverse Kinematics 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.

Evaluating the Validity of Automatic Speech Recognition Technologies for Online Medical Counseling  
Self Directed Research

📅 May 2020 - August 2020

- 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, including distance from sound source and type of content.

## SKILLS

Python

C/C++

NCCL

RDMA

Serial/Minicom

Kubernetes

HTTP/HTTPS

Vue/Typescript

Grafana

## LANGUAGES

English: Native Speaker

Chinese: Native Speaker