Lingyun Chen

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🎓 Education

East China Normal University (ECNU), Shanghai, China   2013 – 2017
B.S. in Software Engineering (SE)

👥 Experience

ToWin InfoTech Shanghai Branch   May 2018 – July 2019
Software Engineer

- Cloud-Native Translation Pipeline System base on Argo
- Design and setup a staging environment base on Istio
- Setup a IP proxy pool and build micro-services.

Ruff   Apr. 2016 – Apr. 2018
Software Engineer

- Java Backend Developer
- Javascript Development
- Setup a CI/CD system and use Kubernetes to manage services

👥 Projects

Babelchain Novel   May 2018 – July 2019
Software Engineer

We use AI to translate Chinese Wuxia Novels into English, and the translation quality beats everyone else on Wuxia Novel translation. Products are a web novel site and a customized Discourse forum. We use Aliyun.

- Cloud-Native Translation Pipeline System base on Argo
  - API Specification for Pipeline and Worker. Work with NLP team, and push them to implement NLP workers as convention.
  - Design a Pipeline Priority Queue using Redis. Leveraging a cronjob to deploy rate limit roughly
  - Using Systemd Time to auto retry failed pipeline job, clean the succeeded, clean intermediate artifacts and backup pipeline job in the waiting queue.
  - Using Kubernetes Scheduler Extender to do fine-grained rate limit on Pod level.
- Leveraging Istio to dispatch requests. Configuring Request Routing to setup a staging environment. Provide solutions for Canary Release, Circuit Breaking and Redirection.
- Using HaipProxy to build a IP proxy pool. Leverage AST to generate IP validators for different sites.
- Webpage translation service, User reward service, evil user detection service and more.

Pylox   Feb. 2019
Personal Open-source project

Lox is a simple programming language. it's dynamic typing and support OOP. Pylox is the Lox's interpreter implemented in Python. Source code at https://github.com/Excited-ccccly/pylox

- booleans, numbers, strings and nil datatypes
- control flow. if, while and for statements
- function, recursion and closure.
- class and inheritance

Iot SaaS Platform   Feb. 2017 – Apr. 2018

DevOps

Iot Saas Platform is a platform leveraging Micro-services architecture that collects, aggregates and analyses data from industry partners. It provide device monitoring, alarms, production caculation etc in mobile app. It aims to provide a better way for industry partners to manage their devices and improve production efficiencies. We use Azure.

- Java API developer. Communicate heavily with bussiness analyst and product manager. Split User story into operational tasks.
- Design and Java implementation for calculating production and operation rate from time-series data.
- Design Restful API on Swagger
- Design and setup an CI/CD system which is able to deploy dozens of service to Kubernetes every day
- Use Kubernetes to manage every service's Deployment, Service, Pod, Persistence Volume , Ingress, Secret, ConfigMap.
- ELK logging system on Kubernetes, monitoring every service's API call latency and error count, integrated with email system.
- Manage cloud computing resources on Azure. Involving Virtual Machine, Storage, LoadBalancer Database DNS etc.
- Knowledge sharing talk about Kubernetes in the company, which managed to get 3 engineers started.

⚙ SKILLS

- Programming Languages: Python = Java > Javascript > Go > C
- Framework: Spring Boot, Flask, React.js
- DevOps: Docker, Kubernetes, Istio, GitLab CI, Jenkins
- Dev Machine: Arch Linux, macOS
- Specialization: Web Development
- Hobby: Reading, Knowledge sharing
- Others: Object Oriented Programming, Agile Development, Functional Programming, Operating System, Networking

ℹ PROFESSIONAL ROADMAP

From Frontend to Backend, from application layer to OS layer, I have built a map for various technologies, which helps me to learn new technologies very quickly. When I was a frontend intern, I grasped React, EventLoop and built a Functional Programming mindset, which help me a lot when comes into Java NIO and Java Stream API. I also built a strong OOP mindset after I programmed in Java for a year and a half. Having a FP and OOP mindset, plus a good understanding of EventLoop, Python is really easy and fun to master. I love decorator and coroutine in Python. I am the tech guy who is willing to dive into the foundation of various technologies. Currently, I am obsessed with learning xv6 operating system and TCP/IP networking stack.

ℹ MISCELLANEOUS

- GitHub: https://github.com/Excited-ccccly
- Blog: https://studymakesmehappy.club (Currently Chinese Only)
    - Be productive with Visual Studio Code
    - Data Structures in Linux Kernel: LinkedList
    - Behind 2FA
    - TrumpScript, Make Programming Great Again
- Language: English - Familiar, Chinese - Native