Personal Information

- **Felix Chen**/Male
- Master/Graduated at 2017/East China University of Science and Technology/Computer Science and Technology
- Blog: https://chennima.github.io/blog
- Github: https://github.com/ChenNima
- LinkedIn: https://www.linkedin.com/in/yifei-chen-990199110/
- E-mail: fennu637@sina.com / Phone：18918561263

Working Experience

SAP Labs China　（2016.10 ~ ）

Architect, Web development(Frontend/backend), DevOps and data engineer

Architect/SAP Concur　（2021.1 ~ ）

Design and develop "SAP Concur eFapiao" service, what is a fapiao auto-recognition and validation system base on `NodeJS` and WeChat mini program.

- DevOps
  - Operating and deploying the project on AWS and `Kubernetes`
  - Service registration and discovery base on Concur customized `Istio`+`Envoy` service mesh
- Backend development
  - Backend service base on `NodeJS` and `NestJS` framework
  - The data backend is AWS distributed database `DynamoDB`
- Data engineering:
  - Collecting metrics generated by the running service and integrate with data pipeline with `AWS S3` and `AWS Kinesis` data stream
  - Utilizing `AWS Glue Job` to implement data ETL Job base on `Spark`
  - Utilizing `Grafana` and `AWS Athena` to query and visualize collected metrics data
- Machine learning:
  - Deploying OCR model base on `PaddleOCR` to mark those unrecognized fields of fapiao image
  - Training key information extraction model base on `SDMG-R` model and perform information extraction from fapiao image

Senior DevOps/SAP Jam Collaboration　（2020.3 ~ 2020.12）

SAP Jam Collaboration(a.k.a Jam) is a collaboration tool based on `Ruby on Rails` as backend and `React`, `BackboneJS` as frontend.

- Lead the DevOps team evolving the architecture. Including introducing `Consul` which works with `HAproxy` we already have to implement dynamic service registration/discovering and `Service Mesh` in legacy data centers which do not have the infrastructure for Kubernetes; introducing `Prometheus` for refactoring original logging system and monitoring system.

- Work with international teams. Achieved around-the-clock support of DevOps topics across multiple timezone.

DevOps/SAP Jam Collaboration （2019.3 ~ 2020.3）

- Migrate the whole project to AWS `Kubernetes` from SAP owned data-center which was deployed with docker container
- Writing `Terraform` for managing infrastructure
- Splitting and decoupling micro services into individual `Helm` Charts and deploying them separately
- Utilizing `ArgoCD` for implementing `GitOps` workflow
- Deploying `Istio` service mesh and implementing canary deployment, traffic monitoring and etc

Full Stack Developer/SAP Jam Collaboration　（2017.10 ~ 2019.3）

Both frontend and backend(`Ruby/NodeJS/Golang`) development.

- Frontend:
  - Creating an abstract layer for combine `BackboneJS` and `React` components organically, implemented division of new and old code
  - Migrate new features' development to using `React`/`Typescript`/`Styled-Component` tech-stack while not affect old code and feature.
- Backend:
  - Maintaining `Ruby on Rails` backend service
  - Implementing micro-services based on `NodeJS`, including `server-side-rendering` service for React components and pre-rendering service for `SEO`
  - Implementing file storage service based on `Golang`. The major purpose was providing a unified interface for storing files to media like `NAS file system`, `AWS S3 Bucket`, `Azure Blob Storage` and etc

Frontend Developer/SAP Jam Community　（2016.10 ~ 2017.10）

SAP Jam Community is a social platform based on `EmberJS`/`Vue` and `Ruby on rails`. During this period of job, my major job was frontend developing. Other then creating `EmberJS` component, I also wrote a front-back-end-separated management tool using `Vue`.

CareerBuilder China　（2016.4 ~ 2016.10）

Intern Web developer

Implement web service based on `AngularJS`/`Ruby on Rails`/`NodeJS`

Certifications

Skill

Familiar with

- Web developing:Javascript `Typescript`/HTML/CSS `Styled-Component`/Webpack/NodeJS
- DevOps: Docker/Kubernetes/Terraform/iptables/Consul/HAproxy/AWS
- Web framework: React/Vue/NestJS
- Data engineering: AWS Athena, AWS DynamoDB

Know about

- Web: Ruby on Rails/GraphQL/Golang/SEO
- DevOps: Jenkins `Groovy`/Service Mesh/AWS/Git Ops
- K8S related: Istio/EFK/Helm/ArgoCD
- Data engineering: AWS Glue(Spark), MySQL
- Machine learning: PaddlePaddle/CNN/SDMG-R