

# Personal Information

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- **Felix Chen**/Male
- Master/Graduated at 2017/East China University of Science and Technology/Computer Science and Technology
- Bachelor/Graduated at 2014/East China University of Science and Technology/Environment Engineering
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# Working Experience

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## SAP Labs China ( 2016.10 ~ )

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

### Senior Full Stack Developer/SAP Concur ( 2021.1 ~ )

Participate in the development of "SAP Concur eFapiao", 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**
- Backend development: Backend service base on **NodeJS** and **NestJS** framework. The data backend is **DynamoDB**
- Data engineering:
  - Collecting metrics generated by the running service and store them at **AWS S3**
  - Utilizing **AWS Glue Job** to merge the collected data as **Parquet** format and perform multiple aggregation via ETL Job
  - 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/Go lang**) 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 **Go lang**. 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

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# Skill

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## 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