

# Yio Chou

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## WORK EXPERIENCE

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### OneDegree, Senior Backend Engineer

2021/10 - present

Tech: Python, PostgreSQL, SQLAlchemy, GitLab CI

- Led a team of 4 backend engineers. Planned and assigned suitable tasks to members. Coordinated with them to achieve effective teamwork and increased productivity by 40%.
- Rejuvenated core insurance modules progressively for better product usability. And identified improper module definitions and corrected them to match business domain.
- Developed flexible rule engine for users to easily utilize the modules in python script.
- Designed and implemented development tools for internal use, e.g., showing model/schema difference between tags, installing build-in data thru csv file. Helped team members to work more smoothly.
- Drove the codebase clean-up. Clarified numerous legacy code with PM and senior members.

### SoundOn, Backend Engineer

2020/7 - 2021/7

Tech: NodeJS, PostgreSQL, GCP, K8S, BigQuery, Dataflow, CircleCI, Firebase, React, Redux

- Developed new features of podcast hosting service and podcast player. Refactored the legacy code base.
- Managed applications running on GCP, K8s. Detected and optimized the slow queries in PostgreSQL.
- Scheduled ETL cron jobs to process and aggregate BigQuery data for performance analytics of podcast shows and podcast rankings.
- Migrated database from Firestore (NoSQL) to PostgreSQL with zero downtime, and transformed dirty documents into consistent records.
- Supported frontend team (React, Redux, and Prerender), app team (Flutter) ◦

### LJIT.io, Frontend/Backend Engineer

2018/5 - 2020/2

Tech: NodeJS, Express.js, MongoDB, MySQL, Redis, AWS S3, React/Redux, Webpack, Docker

- LJIT.io was an outsourcing company. Developed various projects and utilized multiple technologies. Played both frontend and backend roles.
- Blockchain game (dapp) project: Modified a smart contract and deployed to ethereum. Developed website with React, Redux, and web3.js to interact with the deployed smart contract.
- Video streaming platform project: Engineered frontend, backend, and database schema design. Stored video files on AWS S3, and deployed CDN for better viewer experience.
- Gambling platform project: Implemented various lottery algorithms and unit tests. Saved the team significant time on writing tests by introducing template for test code auto generation. Launched two-factor authentication.
- Took an active part in study group, and shared topics like SOLID, React/Redux, Database Transaction/Isolation and so on.

## EDUCATION

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### National Central University

2013/9 - 2017/7

Bachelor of Computer Science.

## SKILLS

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- Programming Languages: JavaScript(Node.js, TypeScript), Python, Golang
- Database: MySQL, PostgreSQL, MongoDB, Firestore, Redis
- Infra: GCP(GKE, BigQuery, Dataflow, CloudRun), AWS S3, K8S, Terraform, CircleCI
- Frontend Framework: React, Redux, JQuery
- Other: Git, Docker, Firebase, OneSignal, BullMQ, MailGun, TapPay, SOLID