

# Kuan Pin (Ben), Chen

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## EDUCATION

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### University of San Francisco,

Jun 2022 - Jun 2023

*Master, Data Science*

- Courses: Data Structures /Algorithms, Relational Databases, Distributed Computing, Distributed Data Systems, Machine learning lab, Relational Database, Product Analysis.

### National Taiwan University,

Sep 2015 - Jun 2019

*Bachelor, Economics.*

- Courses: Data Mining, Artificial Neural Networks.

## SKILLS

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**Programming Languages:** Python, Javascript, Java, Scala, SQL.

**Tools & Frameworks:** PostgreSQL, Node.js, Django, React.js, Plotly, Spark/PySpark, Pytorch, SocketIO, Docker/Docker-compose, Kubernetes, AWS, GCP, Vim, Git/Github, Git Action, Vim.

**Certifications:** AWS Machine Learning Specialty, AWS Certified Solutions Architect – Associate; AWS Certified Cloud Practitioner;

## WORK EXPERIENCE

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### Amazon Machine Learning Solutions Lab.

*Machine Learning Engineer Intern*

Oct 2022- June 2023

- Designing and researching new optimization algorithms for accelerating large-scale deep learning training with Amazon Machine Learning Solution Lab and USF Data Institute.

### Technology Start-Up, CHUN HONG WEB.

*Software Engineer*

Apr 2021- Mar 2022

- Built CRM system fronting as a chatbot with inline keyboards by grammy.js(telegram interface), Line API, and mobile phone scripting with Auto. js, PostgreSQL, and Django, for the backend.
- Build API backend for an IoT company, managing service for multiple statuses and stakeholders, using Django Restful, ORM, PostgreSQL, and postman.
- Designed a customized system, applying Bull.js as a task queue manager. Redis pub/sub and caching. Crawling with Playwright, Puppeteer, and Selenium. Static dashboard website with python flask and Dash(Plotly). Deployed on AWS. SocketIO. Containerization with Docker.
- Developed Trading Algorithm with MQL4 and Easylanguage, including traditional indicators trading and position management.

### Start-up in Social Media Industry, Chuan Jia Bao Ltd.

*Co-founder, Backend Engineer*

Apr 2019- Apr 2021

- Built a social media app with Express.js, MySQL, AWS Beanstalk, AWS ElastiCache, and Docker. RollRoar is a poll-based social media with our form of content and algorithm. Reached DAU of 1000+ people, MAU of 9000+ people.
- Built an NLP recommendation system via Bert as Service, prolonged average user sessions by 40+%, and reduced content skipped rate by ~7%.
- Initiated automation project for operational tasks (information searching) with selenium, and Node.js, saving manpower by 90%.
- Optimized SQL query by redesigning the query and indexation, decreasing query time by 60%.

## SELECTED PROJECTS

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### Personal Portfolio Website [www.benchen1996.info](http://www.benchen1996.info), Personal project(React.js).

Sep 2022.

- Built a react personal portfolio website with React.js, docker, and Nginx, hosted on AWS.

### Santorini BoardGame, Personal project (JAVA, Object-Oriented Programming, Object-Oriented Analysis) Oct 2022.

- Conducted object-oriented analysis using UML diagrams and Class diagrams, and applied design patterns to achieve code extensibility and decoupling of the application.

### Apache Spark Data Engineering, Personal project (Scala, Functional Programming, Distributed Computing) Oct 2022.

- Applied functional programming in Scala to write distribute-friendly code and utilized Apache Spark as cluster manager, MLlib, and GraphX to perform data wrangling.