

# Kuan Pin (Ben), Chen

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## EDUCATION

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### University of San Francisco,

Master of Science in Data Science

- Courses: \*Data Structures/Algorithms, \*Distributed Data Systems, Machine learning lab, Relational Database, \*Advanced Machine Learning, Distributed Computing.

San Francisco, CA

Jun 2023(Expected)

\*expected in Spring 2023

### National Taiwan University,

Bachelor, Economics.

- Courses: Data Mining, Artificial Neural Networks.

Taipei, Taiwan

Jun 2019

## 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 with USF Data Institute

San Francisco, CA

#### 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.

Taichung, Taiwan

#### Software Engineer

Apr 2021- Mar 2022

- Built a customer relationship management system with Django for clients to monitor and analyze consumer activities.
- Developed an interactive chatbot with grammy.js, Line API, and Auto.js, automizing customer services.
- Designed relational database schemas with E-R Diagram, and built a PostgreSQL database to achieve efficient complex join.
- Constructed Trading Algorithms with MQL4 and EasyLanguage to automatically perform indicators trading and position management.
- Designed a micro-service architecture system to increase system scalability and robustness, and implemented multiple services, including a task queue manager via Bull.js, a caching service via Redis, a task consumer service with Puppeteer and Selenium, and a dashboard service with python flask and Dash(Plotly).

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

Taipei, Taiwan

#### Co-founder, Backend Engineer

Apr 2019- Apr 2021

- Built a social media app with Express.js, MySQL, AWS Beanstalk, AWS ElastiCache, and Docker, the service reached daily-active-user of 1000+ people and monthly-active-user of 9000+ people.
- Modeled 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 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)

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.