

Cheng-Yu Chuang

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SUMMARY

Software Engineer with a **master's degree in Computer Science** and **5 years of industry experience** transforming business requirements and functional specifications into software solutions and improving efficiency, scalability, and stability of various system resources. Experienced with **Microservice**, **Spring Boot**, and **Kafka**. Demonstrates proficiency in **Java** and **Python**, with strong **system design** skills on the **backend**. Adept at keeping pace with evolving **Machine Learning** technology.

PROFESSIONAL EXPERIENCE

Self-Employed

2023-09 – PRESENT

- Developing Smart Gym System at Strength Camp SF, integrating AI capabilities to generate customized workout/diet plans autonomously and offering personalized suggestions for members – *Python, Java, Spring Boot, REST API, Fast API, AWS Lambda, InfluxDB, Telegraf, Grafana, Kafka, Eureka, Hystrix, MongoDB, Docker*

Research Assistant | SAN FRANCISCO STATE UNIVERSITY

2021-12 – 2023-9

- Created a website utilizing deep learning techniques to assist blind and visually impaired communities in accessing videos – *Java, Spring Boot, Spring Cloud, Python, PyTorch, MySQL, REST API, JSON, Docker, Linux*
- Accomplished research work by improving video description AI model to be state-of-the-art model, resulting in an average 2.58% increase in all scores - <https://arxiv.org/abs/2311.04480>

Senior Software Engineer | TRADEBEYOND (FORMERLY CBX SOFTWARE)

2019-09 – 2020-11

- Developed supply chain systems with over 30,000 retail & supplier partners, and 50,000 users in more than 50 countries – *Java, Spring Boot, Spring Cloud, MongoDB, Elasticsearch, REST API, JSON, Gitlab, Jenkins, Docker, Kubernetes, Helm, Linux, Azure, AWS S3, HTTP, Eureka, Kafka, Hystrix, Microservice*
- Promoted to Senior Software Engineer based on extraordinary performance and team collaboration within 6 months
- Implemented Netflix Eureka as service discovery and Kafka as message broker to decouple back-end services
- Integrated SonarQube into development workflow, eliminating over 100 potential bugs and elevating code quality through automated code reviews that efficiently identify and rectify bugs
- Delivered multiple cross-team presentations on cutting-edge technologies.
- Introduced JUnit and Mockito into development process to enhance code quality
- Implemented JMeter integration within CI/CD pipeline, enabling automated stress testing as an integral part of deployment process
- Managed development timeline using Jira and Agile methodologies, ensuring efficient project planning and execution

Software Engineer | HUNG YANG SOFTWARE

2017-08 – 2019-07

- Maintained an ERP system for Far EasTone, third-largest telecommunications company in Taiwan – *Java, JavaScript, JSP, Oracle SQL, Tomcat, Linux, SVN*
- Reduced 30% development and maintenance effort and 15% CPU and RAM usage by developing a new system
- Rated top performer in the department twice among 120 Software Engineers (2018 & 2019)

Software Engineer | LEADTEK RESEARCH

2015-09 – 2017-06

- Developed 2 Android healthcare applications assisting users in tracking and recording health data – *Java, Android, SQLite*
- Created a kiosk system for over 20 hospitals to help patients record health data – *Java, Android, SQLite, SOAP*

EDUCATION

M.S. in Computer Science | SAN FRANCISCO STATE UNIVERSITY | 4.0 GPA

2021-2023

B.E. in Computer Science and Information Engineering | NATIONAL CENTRAL UNIVERSITY

2010-2014

SKILL

Languages: Java, Python, C, C++, JavaScript, HTML/CSS, JSON, YAML, Protobuf

Database: SQL (Oracle SQL, MySQL, SQLite), NoSQL (MongoDB, Elasticsearch), TSDB (InfluxDB)

Frameworks: Spring MVC, Spring Boot, Hibernate, Android, JUnit, Mockito, REST API, Fast API, Hystrix

Developer Tools: Azure, AWS, Git, SVN, Docker, Kubernetes, Helm, JMeter, Jenkins, VS Code, Kafka, Eureka, Grafana