

Chingan Shih (Anna)

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SKILLS

Programming language: Java, Spring Boot, C++, JavaScript, Node.js, Express.js, HTML/CSS

Database Management: MongoDB, MySQL, Postgres, Oracle

Containerization: Docker

Version Control System: Git, GitHub

Amazon Web Service: EC2, RDS, S3, VPC

Testing Tool: JMeter, Selenium, QTP, Postman, TestNG

Other: Google Suite, Jira, Trello, Confluence, Slack, Agile, Test Manager

EXPERIENCE

Newegg Commerce, Inc

Quality Assurance Engineer

04/2021 – 08/2021

- QA lead for two major projects. Reported test results to project stakeholders with **strong time and project management skills**.
- Provided **what-if analysis** during an **Agile discovery phase**. Performed **risk-based testing** to assess the impact of software failure and to **define test coverages**. Supported the project to **shape business goals** and achieve flawless software.
- Developed **JMeter functional testing scripts** to ensure application correctness and appropriate response time for backend testing.

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Quality Assurance Engineer

02/2020 - 04/2021

- **Coached new testers to solve technical problems**, and built 5+ learning instructions for JMeter, Selenium, and other domain knowledge.
- Utilized JMeter thread groups to perform stress testing and **discover the failure of API performance**. Collaborated with the configuration team to re-spec system configurations using stress test results.
- Scheduled daily test scripts that **monitor software quality in production** and reported the results via **Slack Webhooks**. The test scripts discovered system configuration problems and allowed teams to create a patch preemptively.
- Developed Selenium automated tests for different web drivers in Python. **Reduced overall QA manual testing time** by more than 60%.

CTBC Securities Co., Ltd

Software Engineer Intern

10/2018 - 04/2019

- Joined the **QTP** automated tool training program for setting up new test environments. Performed installation, maintenance, and system support. Created functional and regression test cases and implemented them as test scripts via VBA.
- Supported another department in the development of a user interface and API for the internal system using **C#, SQL, and JavaScript**.

CTBC Bank

Summer Intern

07/2018 - 08/2018

- Learned OCR tools, collected data, and provided suggestions to the AI development project across 3 different departments.

PROJECTS

Thrift Store E-Commerce [[GitHub](#)][[Website](#)]

Skills: React, Java Spring Boot, MongoDB, Rest API, AWS EC2, S3, SSL

03/2023 - Ongoing

- Created a Rest API service with **Spring Boot framework** connected to a **MongoDB** database.
- Developed the frontend application using **React**, served from Spring Boot server using frontend-maven-plugin and maven-resources-plugin. Made backend HTTP calls using **Axios**.
- Registered custom domain name using IONOS DNS service. Encrypted endpoints using **TLS** from DigiCert Certificate Authority.
- Deployed Spring Boot application onto an **AWS EC2 instance with S3 storage**.

Visa Appointment

Skills: Golang, Postgres, Twilio API, Rest API, Amazon RDS, EC2

02/2023 - Ongoing

- Connected to **PostgreSQL** on **AWS Relational Database Service (RDS)** and made database schema migrations with go-migrate.
- Filtered available appointments from API response and implemented **Twilio API** to send available appointments to clients.
- Created **Rest API** to handle **CRUD** http requests.

Build REST API using Spring Boot [\[GitHub\]](#)

Skills: Java, Spring Web MVC, Maven, HikariCP, Docker, Postgres, PgAdmin, Flyway, Postman

01/2023 - Ongoing

- Implemented version-based database migration via **Flyway** to define SQL schema and ran **Docker Compose** to create Postgres and PgAdmin services.
- Configured a **Hikari connection pool** as a **JDBC data source** and implemented a JDBC template to execute SQL and extract results.
- Created **Rest API layer**, **Service layer**, and **DAO layer** to handle different HTTP requests successfully. Validated API endpoints using **Postman**, and verified data stored in Postgres using SQL and Postgres client.

Assembly Line Simulation [\[GitHub\]](#)

Skills: C++, Data Structure, C++ STL Library

08/2022 - 08/2022

- Implemented an assembly line manager to process customer orders. Orders pass through multiple warehouse stations where requested items are fulfilled by each station's inventory.
- Created class modules for the assembly line components and implemented collections using C++ STL classes.

Website JS [\[GitHub\]](#)

Skills: Node.js, Express.js, HTML/CSS, Git, Heroku, Postgres, PgAdmin, MongoDB

05/2022 - 08/2022

- Incorporated Handlebars view engine to render **JSON** data visually in the browser using handlebars.js views and layouts.
- Implemented file/image upload using **HTTP multipart form data** library Multer and the Cloudinary library.
- Used Sequelize library to manipulate data in **PostgresDB** running on **Heroku** cloud platform.
- Worked with Mozilla's client-sessions node library and data persistence using **MongoDB** to define the schema.
- Used bcrypt.js to encrypt user passwords stored in the database.
- Deployed website to Heroku.

CERTIFICATES

Certified Tester, Foundation Level – ISTQB

01/2023

EDUCATION

Computer Programming

Seneca College

09/2020 - 12/2022

Information and Finance Management

National Taipei University of Technology

09/2015 – 06/2019