

Kevin Chou

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Backend Development || API development || Microservices || Full-stack Development || Software Testing
US citizen and authorized to work for any US Employer.

Education

University of Maryland, College Park
M. Eng. Software Engineering

Jan.2021 - Dec.2022

Kaohsiung Medical University
B.S. Medical Informatics

Jun.2015 - Jun.2019

Skills

Programming languages:

Java, Python, C#, JavaScript, TypeScript, SQL, PHP

Framework:

Git, JUnit, Spring Boot, Angular, .NET, Dockers, Maven, Mockito

Databases:

MongoDB, PostgreSQL, DynamoDB, MySQL, Microsoft SQL Server

Certifications and Languages:

CompTIA Security+, English, Chinese

Others:

AWS, jQuery, AJAX, Selenium, web crawler

Work Experience

Formosa Plastics Corporation, U.S.A.
Software Engineer Intern

Jun.2022-Aug.2022

- Improved production line efficiency by 50 % by developing a full-stack material management system and conducting Unit testing and Integration testing.
- Increased productivity by 15% by resolving concurrent updating and automated retry on failures by implementing database schema and database access layer.
- Automated transfer and backup data between central and development databases using script programs.
- Optimized user experience and reduced data errors by 15% by establishing a form validation function library developed by JavaScript, jQuery, and AJAX.

Walton Advanced Engineering

Sep.2020-Oct.2020

Software Engineer Intern

- Upgraded the Ticketing System, optimizing the user experience with the Enterprise Resource Planning (ERP) system and increasing user satisfaction to 90%.
- Developed create/read/update/delete functionalities for the Ticketing System on the service layer by PHP and communicated with MySQL.

Taiwan Information Security Center

Oct.2018-May.2019

Research Assistant

- Enhanced medical data security by storing sensitive patient information on a Dockerized server on Linux via blockchain.

ESi Technology Ltd -(Microsoft Gold-Certified Partner)

Jun.2018-Aug.2018

Software Engineer Intern

- Facilitated data fetching by developing REST API on the .NET framework and conducted unit testing and Integration testing.
- Created a CI/CD Workflow on GitLab CI to streamline work procedure time by 50%.
- Strengthen user experience with a satisfaction rate of 90% by developing plug-in programs to customize user profiles and enable phone calls on Microsoft Dynamic Customer Relationship Management (Dynamic CRM).

Projects

Kevin's website

Apr.2023-May.2023

- Developed and launched a dynamic personal website using the Django framework, integrating API calls to retrieve and display personalized data, resulting in an engaging user experience that effectively showcases my skills, projects, and achievements.
- Deployed the website on an AWS EC2 instance, leveraging the scalability and reliability of AWS infrastructure to ensure optimal performance and availability for visitors.

Weather Comparison and Analysis Tool

Mar.2023- Apr.2023

- Successfully designed and implemented a Django project, leveraging OpenWeatherMap.org's API, enabling users to compare and analyze weather data, resulting in enhanced decision-making capabilities and an improved understanding of weather patterns and forecasts.

Student Management System

Nov.2022 - Jan.2023

- Facilitated networking amongst Taiwanese students and alums in the DMV area networking by developing a REST API for their Student Contact Management System based on Mongo DB and developed on Spring Boot MVC.
- Implemented a Data Access Layer and Service layer to increase modularity and performed create/read/update/delete functionalities.

To-Do List

Nov.2022 - Dec.2022

- Developed a To-Do List system on Angular and utilized Github Action to conduct CI/CD practice and automate the building and testing process with 100% code coverage.

Software Testing

Jan.2022 - May.2022

- Applied Micro Services design pattern on Spring Boot, then conducted Unit testing and integration testing on JUnit.
- Tested online material management systems using Mockito for services mocking and Selenium for automated web testing.

Knowledge-Grab

Sep.2021 - Dec.2021

- Provided an online learning platform for UMD students by developing a full-stack online learning/teaching platform on Angular and deploying on AWS EC2 with a satisfaction rate of 90%.
- Modularize the system by implementing a Database Access Layer and applying a micro-services design pattern.

FoodieCare - Recommendation system for foodies

Dec.2017 - May.2018

- Delivered an impactful online restaurant recommending system on the .NET framework, leveraging Python web crawlers with multi-threading to gather a substantial dataset of approximately 20,000 entries.