Ming-Ju Kuo

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Summary

Incoming CS master's student at Virginia Tech. Software engineer intern at Taiwan AI Labs and two years of experience in software industry. Proven ability to develop and test web-based applications. Experienced the agile (Scrum) and CI/CD pipeline with GitHub Actions and Gitlab pipeline.

Education

Virginia Tech, Falls Church, VA   *08/2023 – 12/2024*
MEng in Computer Science
Technical University of Dresden, Dresden, Germany   *10/2016 – 09/2019*
MSc in Bioengineering
National Taiwan University, Taipei, Taiwan   *09/2010 – 06/2015*
BSc in Life Science and Geosciences (double major)

Non-degree Certificate

Fu Jen Catholic University, New Taipei City, Taiwan   *09/2021 – 06/2022*
Software Engineering program
Relevant Course: Linear Algebra, Discrete Math, Data Structures, Algorithms, and Operating System

Professional Experience

Taiwan AI Labs, Taipei, Taiwan   *06/2023 – present*
Software Engineer Intern
- Developing APIs for the bioinformatics platform (GenDiseak) to execute the bio-analysis pipeline.
- Modularizing the task management functionality into a microservice architecture to ensure scalability and mitigate race conditions and deploying the service to Kubernetes clusters.

Lyntics GmbH, Munich, Germany   *04/2022 – 01/2023*
Junior Software Engineer
- Designed Restful APIs for the web application to handle complicated user permission logic.
- Cooperated with front-end engineers to integrate React with well-defined APIs.
- Developed unit tests for APIs and integrated the tests with Bitbucket pipeline for CI/CD.
- Created the microservice such as NGINX for web encryption and reverse proxy.

NZXT, Inc., Taipei, Taiwan   *12/2020 – 03/2022*
Junior Software QA Engineer
- Implemented end-to-end test automation for the e-commerce website and the web-based desktop application (CAM) with CucumberJS in TypeScript to ensure the quality of applications.
- Integrated GitHub Action CI workflow with TestRail and Slack API to report the daily test result.
- Designed the test cases to cover all the new features as much as possible.

Skills

Programming	TypeScript, Python
Framework	NestJS, express,
Tools	Git, Docker, Kubernetes, Slack API, TestRail API

Publications

A Acevedo, Sara Ciucci, **MJ Kuo**, Claudio Durán, Carlo V Cannistraci. Measuring group-separability in geometrical space for evaluation of pattern recognition and embedding algorithms (**IEEE Access**)