Kuang-Cheng (Richard) Yeh

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EDUCATION

National Chengchi University (NCCU)
Bachelor of Science in Computer Science *Expected Dec 2025*

- TOEFL iBT: 104 | GRE: 324 (Q170)

WORK EXPERIENCE

91APP, Inc. Taipei, Taiwan
Assistant Software Engineer Jul 2023 - Aug 2023

- Worked under the Solution Engineering Team in the Product Development Department.
- Converted unstructured company documents into JSON with JavaScript, enabling dynamic rendering and reducing website update times.
- Transformed 91APP PDF API documentation into a fully accessible web-based API reference, improving usability and accessibility.
- Utilized AI tools to verify and analyze documents during JSON conversion, ensuring data accuracy and efficiency.
- Reformatted API documentation into Swagger specifications, enhancing client-side usage efficiency and accelerating internal development workflows.
- Assisted with website updates and data integration streamlining, ensuring timely and precise project delivery.
- Applied version control (Git) and agile practices in a real-world product development environment.

RESEARCH EXPERIENCE

Traffic Optimization Web Application
Supervised by Dr. Kuo, NCCU *Sep 2024 - Jun 2025*

- Developed a web application using Google Maps JavaScript API (Geometry, Directions, Places) to integrate real-time traffic data into route planning.
- Engineered route segmentation and travel-time analysis algorithms to generate optimized stopovers, including restaurant recommendations based on travel-time differences.
- Designed an interactive user interface enabling custom inputs (origin, destination, time windows, stop duration) with dynamic map visualization.
- Strengthened skills in API integration, algorithmic problem-solving, and front-end visualization by addressing practical transportation optimization challenges.

Project: Automated Chest X-ray Pneumonia Diagnosis with CNN Architectures
Course: Artificial Intelligence: Methods and Tools *Fall 2023*

- Implemented deep CNN models (VGG16/19, ResNet50, AlexNet) on the Kaggle Chest X-ray dataset (5,863 pediatric images, Normal vs. Pneumonia).
- Applied data augmentation (rotation, flip, crop, color jitter) and early stopping to reduce overfitting and improve model generalization.
- Tested optimizers (Adam, SGD) to increase validation accuracy and stabilize training.
- Achieved top results with ResNet (Accuracy 90.9%, F1-score 93.0%), outperforming VGG and AlexNet baselines.

ACITIVITIES

Event Planning Team Leader
NCCU Department Orientation Camp *Summer 2021*

- Designed and coordinated activities to help freshmen integrate into the department community.
- Directed a team to execute events smoothly and ensure participant engagement.

SKILLS

Programming Languages: Python, C, C++, JavaScript, SQL
Web & Front-End: HTML, CSS, React.js
Database: MongoDB, MySQL
Languages: Mandarin (native), English (proficient)