Jeffery Chia-Chun Ho

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I am primarily a frontend developer with extensive experience in backend development using C# .NET and Django. I specialize in React and Next.js for frontend development and have also researched Fake News Detection using machine learning techniques. With excellent learning abilities, I am able to solve problems independently, as well as work well in a team.

EDUCATION

Master, Dept. of CSIE, National Taiwan University of Science and Technology | 2021 - 2023

Bachelor, Dept. of CSIE, National Taiwan University of Science and Technology | 2017 - 2021

EXPERIENCE

Frontend Engineer | Trend Micro | 2023.12 – Present

1. Develop and maintain the in-house website, providing detailed customer, product, and information with business intelligence capabilities for informed decision-making.
2. Use React.js and Highcharts.js for frontend development, integrating backend with databases and Azure Data Explorer (ADX)

Website Engineer | UMIKAFFA 優咖智能股份有限公司 | 2019.08 – 2019.12

1. Utilized Django & Bootstrap to build the official website.
2. Discussion with the director and collaboration with the UI designer.

CRM System Maintenance | Red Dot Award, Taiwan Branch | 2018.07 – 2020.02

1. Processing clients' profiles, and establishing profile process workflow.
2. Maintaining the Salesforce of the company (CRM System).
3. Advanced assisting call for submission events, writing and sending online EDM to clients.

SKILLS

Website Frontend Development | React, Next.js

1. Familiar with using React as a frontend framework to develop, also using Next to enhance website SEO, and utilizing SSR to improve website loading performance.
2. Familiar to use Bootstrap, and Tailwind CSS framework and can build responsive web design websites independently.

Website Backend Development | Django

1. Familiar with using Django as a backend framework to develop and its model design.
2. Familiar with Django Rest Framework to build up REST API to communicate with frontend.
3. Using JWT Authentication as user authentication.

Deep Learning Model Design | PyTorch

1. Using PyTorch to implement neural network models.
2. Fine-tune pre-trained model (e.g. BERT) to do downstream tasks.

Programming Language: Python, JavaScript, C++, C
Web Development: React, Next.js, Django, PostgresSQL, Google Apps Script, jQuery
Deep Learning: PyTorch
Version Control: Git, GitHub

MASTER'S THESIS

Enhancing Fake News Detection with Multi-Modal Analysis:
Leveraging Supplementary Information and Enhanced Modal Features

Since multimedia is more readily available, news is being spread more quickly, which has resulted in a considerable rise in the amount of news we receive. However, the dissemination of fake news is also expanding quickly, making it challenging to validate news articles. Traditional verification methods consume significant social and human resources, which cannot keep up with the speed of news dissemination. Therefore, we propose the method EMMA for Enhancing Fake News Detection with Multi-Modal Analysis. We leverage the image captioning model to generate textual descriptions of news images as supplementary information of news. In addition, we employ the multi-head attention module to gain crucial information of modalities from their intra-modal representations and learn inter-dependencies between different modal features from their cross-modal representations. Three real-world datasets were used for experimental evaluations demonstrate that our proposed method, EMMA superior than the state-of-the-art methods, demonstrating higher performance.

PROJECTS

Side Project: Roll Call System by Student Card (Next.js / Django) ↻ Github

This project uses Next.js to make roll calls in class at the National Taiwan University of Science and Technology. The course manager/TA can create a class member list to make roll calls when necessary. Students can record attendance with their ID code or RFID code on their student cards.

Social Network Analysis and Malicious Text Messages Blocking (PyTorch)

In order to improve the stability of the game platform and give general players a friendly gaming environment, we analyze chat messages to find out the relationship between players in the social network and we use deep learning neural networks (Text-CNN) to block inappropriate messages and advertisements in the game chat.

Job Bank Job Recommendation System (PyTorch)

Using the past work experience of a job seeker and the job openings now offered by job banks, utilize word2vec to compare names of job openings to determine similarity. Rank the resume of a candidate based on the category of the position and workplace, and suggest the most appropriate job for that candidate.

UMIKAFFA Official Website (Django / Bootstrap)

Developed a full-stack official brand website using Django, Bootstrap 4, and Django template engines, as well as collaborated with a UI designer.

TEDx NTUST 2019 Annual Event Website ↻ Github

Design and build a simple one-page event website that supports responsive web design, so participants can learn more detailed information about the event.