Hsin-Ling (Justin) Hsu

Software Engineer | Taipei, Taiwan | justin.hsu.1019@gmail.com

1. Total Development Experience: 6 years (3 years of foundational learning, 1 year in algorithm and information security (CTF) competitions, and 2 years in software project development).
2. Experienced in exploring deep learning algorithms (gradient descent, backpropagation, etc.), model training and deployment, generative AI, and open-source Large Language Model domains.
3. Familiar languages and frameworks (Backend: Python, PHP, Java & Frontend: HTML, CSS, jQuery, React). Proficient in database management, planning, and development, especially proficient in relational databases using SQL and vector databases.
4. Familiar with common algorithms and data structures, and have participated in programming competitions and certifications multiple times.
5. Passionate about server penetration and defense (packet sniffing, SQL injection, XSS injection, etc.), proficient in cryptography (RSA, Caesar cipher, continued fraction encryption, etc.), and an avid participant in CTF information security competitions, specializing in Web, Crypto, and Misc.

Work Experience

[Information Development Division] Software & AI Engineer • ChainSea Information Integration Co., Ltd.

July 2023 - Present | Taipei, Taiwan

- 1. Lead researcher for Meta LLama-2, specializing in inference acceleration, distributed computing, dataset creation, pre-training, and fine-tuning.
  2. Analyzed customer service recordings using Whisper and ChatGPT; developed frontend (HTML, CSS, jQuery) and backend (Python+Flask) scripts for audio analysis.
  3. Launched "WeMo Knowledge Base integrated with LLama2" project; designed interface prototype using HTML, CSS, and jQuery. Managed backend (Python+Flask) integration with both the large language model and vector database.
  4. Led GPT team morning meetings, distributing tasks assigned by senior management to team members.
  5. Excelled in problem-solving and communication, mentoring new team members.

[Tech Team] Backend Engineer & Club Course Instructor • Google Developer Student Clubs (National Chengchi University) August 2023 - Present | Taipei, Taiwan

- 1. Participated in Google's "Train-the-trainer: Google Cloud Study Jam: GenAI Edition" training. Subsequently, led the Generative AI course as an instructor for the university's internal event.
  2. In the "GDSC NCCU Member Website" project, my main responsibilities included developing the database and API, and working on backend development with Python + Flask. During this process, I integrated OAuth and JWT, and chose Firebase Cloud Firestore (NoSQL) for our data storage needs.
  3. Served as a club course instructor (teaching "Generative AI" and "Database").
  4. Collaborated with the events team to plan club course content.

Education

National Chengchi University September 2023 - Present | Taipei, Taiwan

Bachelor's Degree • Department of Mathematical Sciences

Personal Portfolio *Only displaying Top 2, for other works please check on GitHub*

Cource Planning Assistant: ChatGPT-LineBot

Language: Python • 2023

Description: A Flask server with LineBot API integration, leveraging GPT for structured course planning assistance. It embodies workflow bot concepts, delivering customized suggestions and logging interactions for optimal user engagement.

GPT-Gomoku-Duel - Intelligent Gomoku Match Program

Language: Python • 2023

Description: An AI-driven Gomoku game in Python, featuring real-time play with OpenAI, board visualization with Tkinter, and winner detection.