Jason Jonarto

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EDUCATION

National Tsing Hua University (GPA 4.0/4.3) Hsinchu, Taiwan
Bachelor of Science in Electrical Engineering and Computer Science *Sep 2021 – Dec 2024*
- **Relevant Coursework**: Data Structures, Design and Analysis of Algorithms, Machine Learning, Data Mining, Software Engineering, Artificial Intelligence, Linear Algebra, Network Security

EXPERIENCE

Software Engineer Feb 2025 – Present
Ennorise Corporation *Taipei, Taiwan*
- Designed and developed Node-RED flows using JavaScript to manage and monitor battery systems, ensuring compatibility with Modbus protocols.
- Conducted RD on software solutions, continuously improving Node-RED flows for better performance, stability, and system integration.
- Utilized Linux command-line tools on IoT gateways for deployment, system monitoring, and troubleshooting

Artificial Intelligence Intern Jul 2024 – Sep 2024
MDKA - PT Merdeka Copper Gold *Jakarta, Indonesia*
- Developed an autonomous Gen AI LLM-based agent using Python, Gemini API, and Retrieval-Augmented Generation (RAG) to optimize supply chain management workflows.
- Engineered an AI agent capable of interpreting natural language inputs and autonomously querying and modifying SQL databases to streamline data operations and decision-making.
- Applied Langchain for RAG pipelines and prompt engineering to improve the agent's contextual understanding and accuracy in database manipulation tasks.

Software Engineer Intern July 2023 – Sep 2023
MNC Bank - PT Bank MNC Internasional Tbk *Jakarta, Indonesia*
- Developed a Content Management System (CMS) front end using Vue.js and React.
- Designed and integrated RESTful APIs for backend services, utilizing TypeScript, Prisma, and following Uncle Bob's Clean Architecture for maintainability and scalability.
- Implemented MySQL as the database management system to store and manage data efficiently.

PROJECTS

Personalized AI Tutor For Programming (Final Year Project)| *Python, Neo4J DB*
- Collaborated with a professor to develop a specialized chatbot AI Tutor to assist students in the Data Structures class and programming in general.
- Implemented Retrieval Augmented Generation (RAG), integrating an OpenAI model with FAISS database retrieval for context-based responses, achieving a 95% accuracy rate.
- Built a Knowledge Graph to organize programming entities, mapping relationships to enhance the model's understanding of complex queries and improve response accuracy.

E. SUN TBrain AI CUP - RAG and LLM in Finance | *Python, Hugging Face, scikit-learn*
- Improved retrieval model accuracy from 71% to 94% by using advanced data preprocessing techniques, optimizing retrieval algorithms, and parameter fine-tuning.
- Conducted comprehensive experimentation on multiple NLP based retrieval models (e.g., TFIDF, BERT, etc), tokenization strategies (e.g., CkipTokenizer, Jieba), and preprocessing combinations to find the best configuration.

Production Ready SaaS Projects | *Next.js, AI Agents, Supabase, FastAPI*
- **Chartzy** – AI-powered trading journal platform for tracking, analyzing, and improving trading performance.
- **Itinary** – AI-driven travel planner that generates personalized travel itineraries based on user preferences.

SKILLS

Leadership Organizations: PPI Hsinchu (Indonesian Students Organization in Hsinchu), High School Student Council
Languages: Python, C/C++, SQL, JavaScript, HTML/CSS, Typescript
Web Frameworks: Bootstrap, React, Vue, Tailwind CSS, MySQL, Microsoft SQL Server, Postman