THANATORN KANTHALA

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SUMMARY

I am a driven and multifaceted individual with a passion for technology and entrepreneurship. My core strengths lie in backend development and full-stack engineering, where I have honed my skills through numerous self-initiated projects and hands-on experiences. Beyond technical proficiency, I am deeply interested in quantitative investment strategies, financial technology, and business operations.

My ultimate goal is to establish myself as a successful entrepreneur, leveraging my technical expertise, business acumen, and an ever-expanding network of industry connections. I am constantly seeking opportunities to expand my knowledge base, sharpen my problem-solving abilities, and gain exposure to diverse business environments. With a relentless pursuit of growth and a keen eye for innovative solutions, I am well-equipped to thrive in dynamic, fast-paced environments that demand agility and strategic thinking.

WORK EXPERIENCE

FullStack Developer, Investic   **April 2023 - Present**
- **Frontend Development:** Collaborated closely with design teams to translate wireframes and mockups into visually appealing and intuitive user interfaces. Leveraged React.js and modern front-end libraries to build responsive and performant web applications. Integrated seamlessly with RESTful APIs and third-party services like TradingView to enhance the user experience with real-time data visualization and charting capabilities.
- **Backend Development:** Architected and developed robust, scalable backend systems to power mission-critical business functionalities, including a marketplace platform, secure payment gateways, and an automated Telegram bot. Employed industry-standard design patterns and best practices to ensure maintainability, extensibility, and fault tolerance. Implemented complex business logic and algorithms to serve quantitative investment data and analytics efficiently.
- **Data Engineering (ETL):** Designed and implemented high-performance data ingestion pipelines to retrieve and process real-time pricing data from various financial instruments and exchanges. Leveraged TimescaleDB, a time-series database, to store and optimize large volumes of time-series data for efficient querying and analysis. Developed custom data manipulation and aggregation routines to support quantitative investment strategies and decision-making processes.
- **DevOps and Infrastructure:** Administered and maintained a robust deployment solution for core services using industry-leading tools like Jenkins, Google Cloud Build, Terraform, and Docker. Streamlined and automated the build, testing, and deployment processes, ensuring consistent and reliable software releases. Collaborated with cross-functional teams to implement infrastructure-as-code practices, enabling efficient provisioning and management of cloud resources.
- **GenAI:** A premier analytics service focused on Gold OI, developed in collaboration with a Quantitative Investment Lab. This service provides expert investment advice, offering detailed scenarios for both buying and selling based on advanced quantitative analysis.

Intern Backend Developer, Accenture   Nov 2022 - Mar 2023
- Played a crucial role in the development of KTB Next, a cutting-edge microservices-based platform built with Go. Collaborated closely with cross-functional teams to thoroughly understand the system architecture and requirements documented in Jira and Confluence. Implemented robust unit testing and integration testing frameworks to ensure the reliability and correctness of the microservices, adhering to industry best practices for distributed systems design. Developed comprehensive test suites covering various scenarios, edge cases, and failure modes, achieving high code coverage and confidence in the software's quality.

Contract Mobile Developer, 360 Innovative   Oct 2022 - Mar 2023
- Spearheaded the development of a groundbreaking mobile application using React Native, delivering a seamless and intuitive user experience akin to Instagram. Played a pivotal role in architecting the application's core functionality, ensuring a smooth and responsive platform for users to engage with content seamlessly. Meticulously crafted the user interface, adhering to industry best practices and incorporating visually appealing design elements to create an immersive and captivating experience. Leveraged React Native's cross-platform capabilities to ensure consistent performance across both iOS and Android devices, optimizing the application for diverse mobile environments.

FullStack Developer, Freelance   2021 - 2023
- Spearheaded the end-to-end design and development of the **LPG Benchmark Dashboard**, a comprehensive system for tracking and analyzing liquefied petroleum gas (LPG) imports across Thailand. Implemented a robust data storage solution to securely maintain import records from various companies, developed complex pricing calculation algorithms to determine LPG pricing based on import data, designed and integrated interactive data visualization components to present pricing insights effectively, and ensured optimal system performance and scalability to handle large-scale data processing.
- Played a pivotal role in the development and maintenance of the **True Solar Monitoring platform**, a mission-critical system for streaming and consolidating solar cell production data from multiple vendors and stations across Thailand. Implemented real-time data ingestion pipelines to seamlessly integrate data streams from diverse vendor systems, designed and optimized the Elasticsearch data storage architecture for efficient indexing and querying of large-scale time-series data, developed robust monitoring and alerting mechanisms to ensure data integrity and uninterrupted system operations, and collaborated with cross-functional teams to gather requirements, prioritize features, and ensure timely delivery of high-quality software solutions.

EDUCATION

Bachelor of Software Engineering   2019 - 2023
Chiang Mai University
- Major in Software Engineering.
- Thesis on "AI Prediction for Cryptocurrency News Sentiment Analysis".

ADDITIONAL INFORMATION

- **Technical Skills:** Golang, Typescript, Python, Rust, React, Next.js, Git, Docker, Jenkins, RabbitMQ, Pub/Sub, gRPC, MongoDB, Postgresql, MySQL, Redis, Terraform, GCP, AWS, Github Action, Gitlab CI/CD, OpenAI, LlamaIndex, Qdrant and Elasticsearch.
- **Languages:** Thai, English.
- **Participants:** SuperAI Engineer Season2, Denso Hackathon, SCG Hatch Hackathon and Typhoon Hackathon, TedFund and Katalyst.