Watchakorn Buddeewong

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Skill

Language: Python, Golang**,** Java Script, Type Script
Backend: FastAPI, Django, Fiber
Cache: Redis, Garnet
Frontend: React, Svelte
CSSFramework: TailwindCSS, DaisyUI
Storage & Databases: MongoDB**,** AWS S3**,** Supabase
Version Control: Git
DevOpt: Docker, CI/CD **,** Dockerfiles **,** Podman **,** Jenkins **,** Git-flow**,** Github Action
Design Pattern: OOP , Clean Architecture **,** MVC
Load-testing: Locust
Tools: Postman, VS Code, Zed, Studio 3T
Testing: Unit tests **,** Integration Tests
Software Architecture: Microservices Architecture
API Document: Swagger , Scalar**-**UI
Authentication: 2FA (Two-Factor Authentication)
Payment Integration: Stripe
Typing Speed: 36 WPM , ACC 90%

Experience

IBotnoi   Bangkok, Thailand (WFH)
Software Developer   Jun 2024 - Present

- Developed robust web applications using the Fiber framework (Golang) with Clean Architecture for maintainability and scalability.
- Integrated AWS S3 for efficient storage and created custom middleware to address specific application needs.
- Implemented secure 2FA (Two-Factor Authentication) and utilized JWT (JSON Web Tokens) for secure user authentication and authorization.
- Built high-performance APIs with FastAPI (Python) and applied OOP principles for structured, reusable code.
- Managed MongoDB instances on Atlas and locally, and used Redis with Garnet for caching and queuing.
- Practiced Git-flow for effective version control and collaborated through GitLab for CI/CD pipelines.
- Created and maintained Dockerfiles and used Podman for container management and deployment.
- Conducted load testing with Locust and implemented CI/CD pipelines using Jenkins for continuous integration and deployment.
- Managed multiple backend repositories in a microservices architecture, ensuring seamless communication and deployment.
- Integrated Stripe for handling online payments, managing subscriptions, and ensuring secure transactions through custom payment solutions.
- Developed and executed comprehensive unit tests and integration tests to ensure code reliability and performance.
- Using generative AI like ChatGPT to enhance systems can provide valuable functionalities, such as API-driven language translation support and creating sentences to use in advertising products.
- Using AWS SQS to effectively manage the queuing system, ensuring efficient message handling and improved application performance.
- Developed a notification system to alert users about various updates, such as promotional offers and special announcements. This enhances user engagement and keeps them informed about relevant opportunities.

Projects

Bot news IT Discord (Python)
https://github.com/watchakorn-18k/bot-news-it-discord (6 starts , 88 forks)
- Developed a Discord bot that sends IT news notifications using the newsapi-python module.
- Configured the bot to send IT news updates every hour and save them in a .tmp file, preventing duplicate notifications if the data remains unchanged..
- Leveraged GitHub Actions to automate the bot server deployment, ensuring IT news is delivered to different channels every hour.

Go Websocket Chat live Fiber (Go)

https://github.com/watchakorn-18k/go-websocket-chat-live-fiber
- Developed a real-time chat application using WebSocket and the Fiber framework for seamless communication.
- Implemented separate WebSocket connections for each chat room, allowing users to see and communicate with only the participants within their room.
- Utilized TailwindCSS to style and enhance the user interface for a modern and responsive design.

Generate Image Web (React/Typescript)
https://github.com/watchakorn-18k/generate_image_web (5 starts)
- Developed an advanced web application for AI image generation using EdgeGPT reverse engineering.
- Utilized FastAPI for the backend, connecting seamlessly with the EdgeGPT module hosted on Replit.
- Employed TailwindCSS for elegant and responsive page styling, ensuring a modern and user-friendly interface.
- Designed the user experience and interface using Figma to provide an intuitive and visually appealing design.

Language Translation App using AI (Python/Flet)
https://github.com/watchakorn-18k/Language-Translation-App-using-AI (9 stars , 4 forks)

- Developed a real-time translation app leveraging CHATGPT, Bing Chat, and Gemini models to facilitate seamless translation between Thai and English.
- Implemented a user-friendly interface using the Flet module in Python, ensuring an intuitive and engaging user experience.
- Integrated CHATGPT, Bing Chat, and Gemini for accurate and context-aware translations, enhancing the reliability and efficiency of the translation process.
- Designed and optimized the application to support both Thai and English languages, providing robust and scalable language support.

Kivy Snippets (code-snippets/extension)
https://marketplace.visualstudio.com/items?itemName=watchakorn-18k.kivy-snippets (42,018 installs)
- Enhanced Development Experience Created an extension for Visual Studio Code (VSCode) and VSCodium that provides improved support for kv file format, enhancing development efficiency for Python-based Kivy applications.
- Seamless Integration Developed features that allow seamless integration of .kv files within the VSCode environment, including syntax highlighting, code snippets, and real-time error detection.
- Documentation and Support Provided comprehensive documentation for users to easily understand and utilize the extension, including setup instructions and usage examples.

Go OTP Fiber (Go)
https://github.com/watchakorn-18k/go-otp-fiber

- Developed a simple OTP (One Time Password) generation and verification service using Go and the Fiber web framework.
- Implemented TOTP (Time-based One-Time Password) for secure OTP generation and verification. Utilized Fiber for building RESTful APIs, ensuring a lightweight and efficient web service.
- Employed MongoDB for storing user data and OTP secrets, providing reliable data management. Integrated pquerna/otp library for generating and verifying TOTP/HOTP codes, ensuring OTP security.
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Adventurer Packing Game (C#)
https://github.com/watchakorn-18k/Adventurer-Packing-Game

- Developed a 2D top-view game in C# using Unity.
- Designed the game to support item delivery missions across different map points.
- Implemented bilingual support for Thai and English, allowing players to switch languages.
- Incorporated a points collection system for each playthrough.

My Profile (Typescript/Svelte)
https://github.com/watchakorn-18k/my-profile

- Developed a personal profile web application using Svelte.
- Implemented deployment to GitHub Pages utilizing GitHub Actions.
- Utilized Bun and Node.js as runtime environments.
- Employed TailwindCSS , DaisyUI for styling and design

Education

Nakhonratchasima Rajabhat University   Nakhon Ratchasima, Thailand
Bachelor of Science (Computer Science)   Expected to Graduate Sep 2024
- Coursework: Operating System, Web App, Basic Programing, Mobile App Development, Game Developerment, IOT