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**About me**

*I am a software engineer with experience in backend development using C#, Flutter, and ReactJS. Passionate about algorithmic problem-solving and competitive programming since high school. I enjoy building scalable systems and optimizing performance.*

**Educations**

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| **FPT HCM University**  *2020 – 2024*   * *[Bachelor of information technology - GPA 8.0/10](https://github.com/jinergenkai/jinergenkai/blob/main/certificates/FPT%20University%20-%20Bachelor's%20Degree%20.jpg)* * 100% scholarship |
| **Nguyen Du High School for Gifted Students**  *2017 - 2020*   * The national informatics team of Dak Lak province * *[Honorable mention for the Informatics in the 2020 National High School](https://github.com/jinergenkai/jinergenkai/blob/main/awards/Honorable%20mention%20for%20The%20Informatics%20in%20the%202020%20National%20High%20School.jpg)* |

**Awards & Achievements**

* *[Third Prize for the 2023 ICPC Vietnam Southern Programming Contest](https://github.com/jinergenkai/jinergenkai/blob/main/awards/2023-ICPC%20Vietnam%20Southern%20Provincial%20PC-MEDAL.pdf)*
* *[Honorable Mention for the 2021 ICPC Vietnam National](https://github.com/jinergenkai/jinergenkai/blob/main/awards/2021-ICPC%20Vietnam%20National%20PC-HONORABLE.pdf)*
* *[Honorable Mention for the Informatics in the 2020 National High School](https://github.com/jinergenkai/jinergenkai/blob/main/awards/Honorable%20mention%20for%20The%20Informatics%20in%20the%202020%20National%20High%20School.jpg)*

**Work Experience**

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| **FPT Software - Aloka team**  *01/2024 – 06/2024*   * ***Team size*:** 21 members. * ***Description*:** Developed software for ultrasound and medical imaging analysis, focusing on measurement. * ***Tech Stack*:** C++, WPF, ASP.NET * ***Responsibilities*:**  |  | | --- | | * **Implemented measurement** and annotation tools for vascular analysis (blood flow, vessel size, wall thickness). * **Optimized data processing** by moving heavy I/O operations off the UI thread, reducing startup delays and improving responsiveness. * **Redesigned API response** structure to ensure efficient data delivery, reducing parsing time and enhancing integration with frontend systems. | |

**Skills**

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| * **Backend**: Proficient in **C#**, **ASP.NET** and **Entity Framework**. Familiar with **Redis** and **SignalR (Websocket).** Understanding of **SOLID principles**, some design patterns. Basic knowledge of **gRPC**, **Message Queue** (**RabbitMQ**), **API Gateway.** * **Database**: Proficient in **PostgreSQL**, **SQLServer** (query optimization, schema design), IndexedDB (offline data, caching). * **Mobile**: Proficient in **Flutter** using **Bloc, GetX** and **Firebase** (push notifications, background tasks). * **Frontend**: Familiar with **Reactjs**, **TypeScript**, **TailwindCSS**, **MaterialUI, Zustand**. Basic knowledge of **Nextjs, Electronjs.** * **Problem-Solving:** Proficient in **C/C++, Python**, with a strong foundation in dynamic programming, graph theory, algorithms, and data structures, especially for competitive programming. * **DevOps & Tools:** Familiar with **Docker**, **Nginx**, **Jira**, **GitHub Actions**, and **CI/CD** pipelines. * **English**: *[TOEIC (Listening & Reading: 745)](https://github.com/jinergenkai/jinergenkai/blob/main/certificates/TOEIC%20745%20LR%2013-01-2025.jpg)*, Fluent communication. * **Others:** Basic knowledge of **Figma, Photoshop** (UI/UX design and prototyping). |

**Highlight Projects**

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| **Huynh Hanh Financial Management System** *(Freelance Project) 08/2024 – 02/2025*   * **Description:** Developed a web application to optimize agricultural operations, from crop management to large-scale weighing and export processes. * **Tech Stack:** ASP.NET, React.js, Electron.js, PhoBERT, Material UI, Tailwind CSS, Docker, Nginx. * **Responsibilities:**  |  | | --- | | * **AI Chatbot & Marketing Page:** Developed a marketing landing page with an AI-powered chatbot using PhoBERT model to assist customers. * **Weighing System:** Built an admin panel to monitor truck weighing via web serial api, store data, print receipts, and export reports. * **Crop Lifecycle Management**: Tracked crop schedules (sowing, fertilizing, harvesting) and visualized planting areas using 3D GPS mapping. |  * **Source:** *[Website](https://www.huynhhanh.com/) | [Github](https://github.com/orgs/huynhhanh-ms/repositories)* |
| **SmartMicro – IoT Platform for Smart Home Management**  *02/2024 – 04/2024*   * **Description:** Developed an IoT platform for managing smart home devices (using the MicroBit device by Microsoft), enabling users to control and monitor devices via Bluetooth and Wi-Fi. Features include real-time charts, voice interactions, and ChatGPT API integration for AI-powered home control. * **Responsibilities:**  |  | | --- | | * Built a mobile app using Flutter with GetX for state management. * Connected to BLE devices via GATT and UART protocols to control devices such as lights and doors via Bluetooth. * Integrated SignalR for real-time data updates and chart displays. * Implemented voice interaction using Flutter TTS and OpenAI API for executing simple commands like turning lights on/off or locking/unlocking doors. |  * **Tech Stack:** Flutter, ASP.NET * **Source:** *[Github](https://github.com/Hai-Ba-Con-Ga/SmartMicro.Mobile)* |
| **Jine Blog**  *04/2024 – 06/2024*   * **Description:** My blog shares knowledge about algorithm, data structure, information technology, lifestyle, and other interesting aspects of life. * **Main Topics:** Programming, technology, personal development, lifestyle. * **Tech Stack:** Reactjs, Tailwindcss, Docker, Nginx. * **Source:** *[Website](https://jine.blog/) | [Github](https://github.com/jinergenkai/JG.Blog)* |
| **Ut Nhan Pharmacy Inventory Management System**  02/2024 – 10/2024   * **Description:** Developed a pharmacy inventory management system for **Ut Nhan** Pharmacy chain, focusing on enhancing warehouse operations efficiency and optimizing inventory management. * **Responsibilities:**  |  | | --- | | * Built a Flutter mobile app for inventory management, supporting product import/export and barcode scanning. * Implemented basic CRUD operations using ASP.NET and collaborated with the team on advanced backend features. |  * **Tech Stack:** ASP.Net, React, MedusaUI, Flutter. * **Source:***[Github](https://github.com/orgs/Hai-Ba-Con-Ga/repositories)*(Private Repos) |