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# HOANG DUC KIEN

JUNIOR BACKEND DEVELOPER

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18-02-2000

Cau Giay District, Ha Noi

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## CAREER GOALS

- *Obtaining AWS certification within the next year.*
- *Become a team lead in the next two years.*

## SKILLS

**Technologies:** Nodejs, Nestjs, Typescript, Javascript, Express.js, MongoDB, PostgreSQL, MySQL, Redis, GraphQL, AWS(EC2, S3), Cloudinary, Vue.js, Nuxt 3, Tailwindcss.

**Others:** Git, Jira, Postman, Docker, Linux, Nginx

## WORK EXPERIENCE

### Ekoios Technology - Backend developer

Jan 2022 - Present

- Developed and maintained RESTful APIs for multiple applications
- Implemented security measures to protect sensitive data
- Collaborated with front-end, contract developers to ensure seamless integration of back-end and front-end, blockchain systems
- Improved application performance by optimizing database queries and server-side logic

## EDUCATION

2018-2022

Bachelor of Science in Computer Science, Vietnam National University of Agriculture

## PROJECTS

### BulletChain Marketplace (Shining team star award)

- **Overview:** Developed a blockchain-based NFT marketplace with buy, sell, rent, and stake features. Collaborated with the game development team to enable the sale of in-game items on the NFT marketplace. Users can buy, sell, rent, and stake NFTs with a crypto wallet using BNB, ETH, and other cryptocurrencies.
- **Role:**
  - Served as the lead backend developer, responsible for designing and implementing the API architecture, creating the database schema, and integrating with third-party services.
  - Responsible for creating a data update queue between the blockchain and the application.
  - Collaborated with the front-end, contract and game development teams to ensure seamless integration between the app and the backend.
- **Skills:** RESTful API using Nest.js, MongoDB, Redis, Socket.io, S3, and using Swagger to create the document
- **Results and Impact:** Improved the functionality and reliability of the app by providing a robust and scalable backend. Ensured data security and privacy by implementing secure authentication and authorization mechanisms. Increased the app's revenue by enabling the sale of in-game items on the NFT marketplace.
- **Challenges and Solutions:** Faced challenges with optimizing database queries and ensuring efficient data retrieval for the app. Implemented indexing and caching strategies to improve query performance and reduce latency. Worked closely with the game development team to ensure seamless integration between the app and the game.
- **Team size:** 7

## Internal Communication Application

- **Overview:** Developed an internal communication application using GraphQL, PostgreSQL, Socket.io, and WebRTC for real-time communication. Designed and implemented the API architecture, created the database schema, and integrated with third-party services. Collaborated with the front-end development team to ensure seamless integration between the app and the backend.
- **Role:**
  - Served as the backend developer, responsible for designing and implementing the API architecture, creating the database schema, and integrating with third-party services.
  - Collaborated with the front-end development team to ensure seamless integration between the app and backend.
- **Skills:** GraphQL API using Nest.js, PostgreSQL, Redis, Socket.io, WebRTC
- **Results and Impact:** Successfully developed and deployed the internal communication application, providing a seamless experience for users to communicate in real-time through text, voice, and video calls. Ensured data security and privacy by implementing secure authentication and authorization mechanisms.
- **Challenges and Solutions:** Faced challenges with optimizing database queries and ensuring efficient data retrieval for the app. Implemented indexing and caching strategies to improve query performance and reduce latency. Also faced challenges with integrating WebRTC for real-time video calls, and implemented the appropriate signaling and data channel protocols to ensure a smooth user experience.
- **Team size:** 5

## Diamond Alpha

- **Overview:** Developed a blockchain-based platform for exchanging tokens between two blockchain networks - BEP-20 and ERC-20. Designed and implemented the API architecture, created the database schema, and integrated with third-party services. Collaborated with the front-end and contract development team to ensure seamless integration between the app and the backend.
- **Role:**
  - Served as the backend developer, responsible for designing and implementing the API architecture, creating the database schema, and integrating with third-party services.
  - Collaborated with the front-end and contract development team to ensure seamless integration between the app and backend.
- **Skills:** RESTful API using Nest.js, MongoDB, Redis, Socket.io, S3, and using Swagger to create the document
- **Results and Impact:** Successfully developed and deployed the Diamond Alpha platform, providing a seamless experience for users to exchange tokens between the two blockchain networks. Ensured data security and privacy by implementing secure authentication and authorization mechanisms.
- **Challenges and Solutions:** Faced challenges with optimizing database queries and ensuring efficient data retrieval for the app. Implemented indexing and caching strategies to improve query performance and reduce latency.
- **Team size:** 6

## MORE INFORMATION

- Author on Medium with over 12k monthly views on topics of technology, programming, AI.
- Likes to research and share knowledge about technology