Nguyen Hoang Hung (John Nguyen)
Senior Fullstack Developer

Personal Details

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PROFILE SUMMARY

- Over 5+ years experience working as a full-stack web developer.
- Proficient in Javascript programming with 5 years of experience working with the language
- Over 5 years of experience working as a back-end developer on the Node.js platform
- Experience in ReactJS, adept at creating interactive and engaging user interfaces using React, Javascript, and CSS
- Experience in working with RestApi/Swagger, GraphQL
- Familiar with Redux, MobX, Storybook, msw
- Familiar with VueJS and Angular
- Highly skilled in using Javascript backend frameworks like ExpressJS, NestJS
- Highly skilled in using SQL database like PostgreSQL and familliar with NoSQL databases such as MongoDB
- Experience in working with asynchronous processing model using queue such as SQS, Kafka, RabbitMQ, BulldQueue Redis
- Used to work with serverless computing model using AWS Lambda
- Familiar with CI/CD tools such as Jenkins, Github Actions, CircleCI.
- Familiar with Docker, Docker Compose, Kubernetes
- High understanding with both Monolithic and Microservices architecture
- Love to learn and apply Design Patterns to make well-structured codebase
- Good Security mindset, always searching for best practices to make code and system meet security standard.

EDUCATION BACKGROUND

- Bachelor of Information Security and Insurance at FPT University

LANGUAGE SKILLS

- **English:** Professional
- **Vietnamese:** Native

TECHNICAL STACKS

- **Programming Language: HTML, CSS, JavaScript, TypeScript**
- **Framework: NestJS, ExpressJS, Fastify, React/Redux, Angular, VueJS**
- Database Management System: PostGre, MongoDB
- Queue Services: SQS, Kafka, RabbitMQ, Redis
- Infrastructure/Tools: Github, K9s, Kubernetes, AWS, Kafka, Terraform, CloudFormation, Github Action, Docker, Docker-Compose, Postman, Jira, S3
- Version Control Management: Git

PROFESSIONAL EXPERIENCE

March 2024 – Now

Fullstack Software Engineer

Webhouse

- **Paylater-travel**

    Description: Pay now, book later. Spread the cost over weekly or bi-weekly payments before you travel. With PayLater Travel, you don't have to worry about having all that money upfront. Secure your family's flights today with a small initial payment

    Team size: 10

    Role: Fullstack Developer

    Responsibilities: Manage technical support through Slack channels by monitoring client complaints and operation team requests, identifying root causes through debugging, proposing solutions and system enhancements, and creating and resolving Jira tickets based on CTO approval. Collaborate with the development team on the skypaygroup repository, which is an event-driven system built with JavaScript, AWS Lambda, and Pulumi infrastructure as code.

    - Analyse user requirements
    - Make good technical decisions that provide solutions to business challenges

- In charge of refactoring source code
- Develop back-end and recommend software improvements to ensure strong functionality and optimization
- Analyse, monitor and improve efficiency and stability of the system

Technologies: NodeJS, Swagger, JWT, Postgre, Amazon Web Services

- **Search Property**

    Description: Buyer's agency that specialises in high-yielding properties with great capital growth potential, across regional and metro markets in Australia

    Team size: 3

    Role: Lead Fullstack Developer, DevOps

    Responsibilities: Create and Develop a custom CRM (previously they used Pipedrive), to manage their tasks, leads, planners, contacts, users, v.v… Create NestJS Backend and ReactJS frontend for them using Vite. Deploy their infrastructure to AWS (ElasticBeanstalk, Amplify, RDS, Cloudfront, ALB)

    Technologies: NestJS, Swagger, JWT, Postgre, ElasticBeanstalk, Amplify, RDS, Cloudfront, ALB

March 2021 - March 2024
FPT Software
Fullstack Software Engineer

- **Mental Healthcare Platform (Cerebral)**

    Description: A telemedicine mental health platform to improve access to treatment for disorders like insomnia, anxiety and depression. The platform connects clinician (doctor, therapist, care counselor) to patients so that they can setup appointment for treatment plan.

    Team size: 100

    Role: Full-stack Developer - Team Lead

Responsibilities: Microservices Architecture: Design, develop, and maintain microservices based applications using NestJS framework. Implement best practices for microservices architecture, ensuring scalability, modularity, and maintainability.

Domain Driven Design (DDD): Apply Domain Driven Design principles to model and implement business logic effectively. Collaborate with domain experts and stakeholders to refine domain models and ensure alignment with business requirements.

API Development: Develop and maintain robust APIs to facilitate seamless communication between different modules and external systems. Ensure adherence to RESTful API standards and implement proper documentation for API endpoints.

Data Management: Design and implement data models for optimal performance and scalability. Utilize relational databases based on project requirements. Implement data access and persistence layers efficiently. Security: Implement and enforce security best practices to protect against common web application vulnerabilities. Collaborate with the security team to conduct regular code reviews and security assessments.

Front-end development: Work closely with designer and other frontend developers to integrate backend services with user interfaces. Ensure smooth data flow and optimal user experience through effective communication with frontend teams.

Technologies: NodeJS, NestJS, Kubernetes, K9s, GIT, Docker, React, React Router, Styled-Component, Redux, Redux-Saga, Story Book, React Testing Library, Cypress, Micro Front-end, Prisma, Nx, Ruby on Rails, Microservice, Apache Kafka, Event-driven patterns, Stripe, Twilio, Chargebee, Helm Charts, SQS, RDS, Lambda, GraphQL

- **Telemedicine health platform (Legwork)**

  Description: Build Patient Relationship Management (PRM) software that integrates with PMSs and websites of dental practices, veterinary clinics, creating a seamless system for online appointment booking, digital dental forms, online payments, and marketing campaigns.

  Team size: 12

  Role: Backend Developer

  Responsibilities: System Architecture: Played a key role in designing the overall architecture of the system, ensuring scalability, security, and high availability. Backend Development: Developed robust backend services, implementing complex business logic and ensuring seamless data management and integration.

Frontend Development: Crafted a responsive and intuitive user interface, enhancing user experience and engagement.

Database Management: Responsible for the design and management of the database schema, ensuring data integrity and optimizing performance.

API Integration: Integrated various third-party APIs for extended functionalities, such as payroll processing and external HR systems.

Testing and QA: Led the testing and quality assurance processes, including writing unit and integration tests, and debugging to maintain high-quality code.

Deployment and Maintenance: Managed the deployment of the application on cloud infrastructure and handled ongoing maintenance and updates.

Technologies: NodeJS, Typescript, VueJS, Redis, Redis Cache, Swagger, GIT, Scrum methodology, PostgreSQL, Docker, Docker Compose, Github, GraphQL

September 2019 – March 2021

Fullstack Software Engineer

VCCorp

- **Social network (Lotus)**

  Description: The Lotus social network aims at providing users with content copyrights.

  Team size: 8

  Role: Back-end Developer

  Responsibilities: Designing solution based on Restful API Architecture.

  - Analyse user requirements
  - Make good technical decisions that provide solutions to business challenges
  - In charge of refactoring source code
  - Develop back-end and recommend software improvements to ensure strong functionality and optimization
  - Analyse, monitor and improve efficiency and stability of the system

  Technologies: NodeJS, Swagger, JWT, Postgre, Redis, Amazon Web Service, Kafka, GraphQL

- **System monitoring**

Description: System monitoring that monitors traces, logs, and metrics. 3 pillars of observability.

Team size: 3

Role: Full-stack Developer

Responsibilities: Create a system that monitor and control servers using PM2 and Redis. Create admin template using core-ui for admin to monitor and check on servers

- Analyse user requirements
- In charge of refactoring source code
- Develop back-end and recommend software improvements to ensure strong functionality and optimization
- Analyse, monitor and improve efficiency and stability of the system

Technologies: NodeJS, Swagger, JWT, Postgre, Redis, Amazon Web Service, pm2, MongoDB, ElasticSearch

- **Video Call Monitoring**

  Description: System monitoring that monitors information about video calls of customer like the quality of the internet and duration of the calls, v.v...

  Team size: 3

  Role: Full-stack Developer

  Responsibilities: Create a system that monitor webRTC call

  - Analyse user requirements
  - In charge of refactoring source code
  - Develop back-end and recommend software improvements to ensure strong functionality and optimization
  - Analyse, monitor and improve efficiency and stability of the system

  Technologies: NodeJS, Swagger, JWT, Postgre, Redis, Amazon Web Service, pm2, MongoDB, ElasticSearch

- **Encryption module**

Description: Encryption module which will encrypt data that being encrypted in database and redis

Team size: 1

Role: Back-end Developer

Responsibilities: Write encryption module in C language and import into NodeJS using C addons with Node-API (using JS script took too long and hurted the performance)

- Analyse user requirements
- Analyse, monitor and improve efficiency and stability of the module

Technologies: NodeJS, C, Node-API

September 2018 – September 2019
Fullstack Software Engineer
FPT Telecom

- **Foxpay (Digital Wallet)**

    Description: Digital wallet project involved the development of a secure and user-friendly mobile application aimed at simplifying financial transactions on mobile devices. This innovative system enabled users to perform various payment-related activities, such as transferring money, paying bills, and managing their bank accounts, all from their smartphones. The app focused on providing a seamless, secure, and efficient user experience, leveraging advanced security protocols to ensure transaction safety.

    Team size: 12

    Role: Backend Developer

    Responsibilities: API Integration: Integrated the app with various banking APIs and payment gateways to facilitate real-time financial transactions.
    Payment Processing: Developed and maintained the payment processing logic, ensuring accurate and efficient transaction handling.
    Database Management: Managed a secure and scalable database to store user data and transaction histories.

User Feedback and Improvement: Actively involved in gathering user feedback and implementing iterative improvements and new features in response to user needs.

Testing and Quality Assurance: Conducted rigorous testing, including unit testing, integration testing, and user acceptance testing to identify and fix bugs and improve overall app quality.

Compliance and Regulations: Ensured the application complied with financial regulations and data protection laws.

Technologies: NodeJS, Java SpringBoot, Oauth2.0, JWT, SSL/TLS, AES Encryption, MongoDB

Freelancing:

Fullstack Software Engineer

- **Mogul Company - Fullstack Developer**

    Description: Platform for users to sell/buy properties from Singapore

    Team size: 12

    Role: Fullstack Developer

    Responsibilities: API Integration: Integrated and design multiple API Endpoints.
    Frontend: Develop UI according to the design.
    User Feedback and Improvement: Actively involved in gathering user feedback and implementing iterative improvements and new features in response to user needs.
    Testing and Quality Assurance: Conducted rigorous testing, including unit testing, integration testing, and user acceptance testing to identify and fix bugs and improve overall app quality.
    Compliance and Regulations: Ensured the application complied with property regulations

    Technologies: NodeJS, ReactJS, Oauth2.0, JWT, SSL/TLS, AES Encryption, MongoDB, AWS

- **Digital Avenues - Frontend Developer**

    Description: Stanford AI Index website - The AI Index is an independent initiative at the Stanford Institute for Human-Centered Artificial Intelligence (HAI), led by the AI Index Steering Committee, an interdisciplinary group of experts from across academia and industry. The annual report **tracks**, **collates**, **distills**, and **visualizes** data relating to artificial intelligence, enabling decision-makers to take meaningful action to advance AI responsibly and ethically with humans in mind.

The AI Index collaborates with many different organizations to track progress in artificial intelligence. These organizations include: the Center for Security and Emerging Technology at Georgetown University, LinkedIn, NetBase Quid, Lightcast, and McKinsey. The 2023 report also features more self-collected data and original analysis than ever before. This year's report included new analysis on foundation models, including their geopolitics and training costs, the environmental impact of AI systems, K-12 AI education, and public opinion trends in AI. The AI Index also broadened its tracking of global AI legislation from 25 countries in 2022 to 127 in 2023.

Team size: 2

Role: Front-End Developer

Responsibilities: Frontend: Develop UI according to the design.
User Feedback and Improvement: Actively involved in gathering user feedback and implementing iterative improvements and new features in response to user needs.
Testing and Quality Assurance: Conducted rigorous testing, including unit testing, integration testing, and user acceptance testing to identify and fix bugs and improve overall app quality.

Technologies: ReactJS, Recharts

- **Bupa - Fullstack Developer**

    Description: Develop module (front-end and back-end) back-office for bupa company in HK

    Team size: 4

    Role: Fullstack Developer

    Responsibilities: Frontend: Develop UI according to the design.
    API Creation: create CRUD API according to the business
    User Feedback and Improvement: Actively involved in gathering user feedback and implementing iterative improvements and new features in response to user needs.
    Testing and Quality Assurance: Conducted rigorous testing, including unit testing, integration testing, and user acceptance testing to identify and fix bugs and improve overall app quality.

    Technologies: VueJS, NodeJS, Postgresql, Oracle

- **Tokenize - Fullstack Developer**

Description: Joins in develop and maintain backend and frontend of a crypto trading site in Singapore

Team size: 5

Role: Fullstack Developer

Responsibilities: Frontend: Develop UI according to the design.

API Creation: create CRUD API according to the business

User Feedback and Improvement: Actively involved in gathering user feedback and

implementing iterative improvements and new features in response to user needs.

Testing and Quality Assurance: Conducted rigorous testing, including unit testing, integration

testing, and user acceptance testing to identify and fix bugs and improve overall app quality.

Technologies: Angular, NodeJS, Postgresql