

EDWARD DUONG

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FULLSTACK SOFTWARE ENGINEER

Full-stack software engineer with 9 years of experience in designing, architecting, and developing secure, scalable, and maintainable solutions across industries like Logistics, Food, and Healthcare. Expertise in event-driven microservices, hexagonal and layered architectures, TDD, and CI/CD pipelines for seamless deployments. Skilled in infrastructure as code (Terraform) and cloud-native development using AWS (S3, EC2, ECR, ECS Fargate, DynamoDB), Docker, and AI platforms like Vertex AI, OpenAI, and PaLM. Proficient in JavaScript/TypeScript, Java, and Python.

- SOLID • Containerization • Project Management • System Design and Security • Systems Integration
- CI/CD • Infrastructure provision and deployment • Cloud Computing • Database Design

Languages: JavaScript, TypeScript, Java, Python

Web: HTML, CSS, ReactJS, Tailwind CSS

Web Services: RESTful API, GraphQL, SocketIO, Server-sent events, JSON

Web/App Servers: NginX, AWS, GCP

Frameworks: Spring Boot, NextJs, ExpressJS, Serverless, FastAPI

Databases: MySQL, PostgreSQL, MongoDB

Design Patterns: Factory, Singleton, Prototype, Builder, Adapter, Decorator, Observer, State

SDLC: Scrum, Kanban, Agile, Waterfall

Tools: VS Code, IntelliJ, Docker, Git, Github, Jira, Confluence, Bitbucket, Slack, NPM, PDM, YARN

Platforms: Linux, MacOS, Windows, Amazon Web Services, Google Cloud Platform

Application/Software: Pubnub, Zendesk

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

DOCTOR ANYWHERE, Ho Chi Minh, Vietnam • 05/2022 – 06/2024

Healthcare startup in Singapore.

Senior Full Stack Software Engineer

Supported customer service systems and system innovation with AI.

- Architected and built the backend with Java Spring, utilizing Amazon ECR and Amazon ECS Fargate to ensure performance and scalability, achieving up to an 80% improvement compared to manually managed servers.
- Secured communication with the front-end using HTTPS and JSON Web Token (JWT), and accelerated integration with Swagger; protected backend sensitive information using AWS Secrets Manager.
- Automated infrastructure provisioning with Terraform and streamlined the development lifecycle using Bitbucket Pipelines and Jenkins, speeding up the product delivery process by 90%.
- Conducted end-to-end (E2E) testing using Selenium WebDriver to identify potential issues and ensure software quality.
- Implemented GCP Document AI to automate appointments, improving efficiency by 60%, and integrated GCP Vertex AI with Telegram to develop a chatbot, expanding customer reach.
- Led the adoption of Gemini and OpenAI to automate email, chat, and PDF processing for customer details, streamlining appointment creation with symptom data and reducing processing time by ~40%.

Technologies Used: Java, JavaScript / Typescript, Python, Spring Boot, Node, NextJs, ReactJs, Tailwind CSS, MySQL, DynamoDB, Docker, Terraform, Bitbucket Pipeline, Jenkins Pipeline, AWS ECR/ECS, GCP Dialogflow, GCP Document AI, GCP Vertex AI

AS WHITE VIETNAM, Ho Chi Minh, Vietnam • 12/2021 – 05/2022

A healthcare startup.

Full Stack Software Engineer

Supported building dashboards for healthcare systems.

- Built and maintained web applications using HTML, CSS, JavaScript, React, and Serverless frameworks, deploying on AWS Lambda to reduce server maintenance costs.

- Leveraged the power of GraphQL to extract necessary information from the backend, optimizing the request payload by up to 90%.
- Optimized database queries and frontend loading mechanism to improve the performance by 3 times.
- Created custom data visualizations using Chart.js and Ag-Grid to provide user-friendly insights and analysis.
- Ensured responsive designs across various devices and screen sizes to enhance the customer's mobile/tablet experience.

Technologies Used: *JavaScript / Typescript, Node, Nextjs, ReactJs, Tailwind CSS, Serverless framework, Apollo GraphQL, AWS Redshift, AWS Lambda, Bitbucket Pipeline.*

RICH PRODUCTS VIETNAM, Ho Chi Minh, Vietnam • 09/2018 – 10/2021

A subsidiary of global Rich Products Corporation headquarter is in Buffalo, New York, United States.

Full Stack Software Engineer & Mobile Engineer

Supported a learning management system, e-commerce, in-house human resource mobile application, door tracking service.

- Managed and enhanced the legacy Moodle LMS, reducing costs and implementing new features, while documenting processes to improve team knowledge.
- Visualized data interactively using Chart.js and integrated Socket.io, enabling administrators to easily track associates' manufacturing travel by 100%.
- Leveraged the ease of use of Node.js and Express.js, along with the flexibility of MongoDB, to build a system that doubled deployment speed and maintenance efficiency.
- Led mobile application development to strengthen company engagement and disseminate rules, compliance guidelines, and instructions, resulting in increased associates' knowledge of compliance.
- Delivered full-stack applications using HTML, CSS, JavaScript, and React, leveraging Azure infrastructure to ensure compatibility with the company's legacy network.
- Collaborated with cross-functional teams to gather requirements and design scalable solutions for complex business problems, driving end-to-end sales growth.

Technologies Used: *JavaScript, PHP, Node, ExpressJs, SocketIO, HTML, CSS, ReactJs, Moodle, Magento, Flutter, MariaDB, MongoDB.*

DOU NETWORK (CYBERLOGITEC), Ho Chi Minh, Vietnam • 09/2015 – 09/2018

Outsourcing company.

Software Engineer

Supported transportation and warehouse services.

- Developed robust full-stack web applications using React, Angular, and the Spring framework to deliver secure and reliable systems to customers while keeping maintenance within acceptable limits.
- Utilized D3.js, Chart.js, and Three.js for advanced data visualizations to present complex information, enhancing users' ability to manage Container terminal.
- Migrated legacy systems to modern frameworks, eliminating vulnerabilities while maintaining operational continuity.

Technologies Used: *JavaScript, Java, Spring, Spring Boot, ReactJs, AngularJs (1.6), Three.js, JQuery, HTML, CSS, MSSQL, PostgreSQL, Oracle.*

ACADEMIC PROJECTS

Maharishi International University (2025)

Health Buddy: This project develops a specialist assistant AI for quick healthcare support, where users assess symptoms via text (optional audio/health data) and receive advice, calming suggestions, and clinic recommendations. Utilized JavaScript, Express.js, React.js, OpenAI.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 04/2027)

Maharishi International University, Fairfield, Iowa

Key Courses: *Web Applications - Architecture and Frameworks, Modern Web Applications, Cloud Computing, Algorithms*

Bachelor's Degree in Information Technology

Ho Chi Minh City University of Foreign Languages and Information Technology, Ho Chi Minh, Ho Chi Minh (09/2015)