TONY LE

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SENIOR BACKEND ENGINEER

Experienced software engineer with over 10 years in designing, developing, and managing high-traffic eCommerce platforms, digital magazines, and complex applications. Proficient in both backend and frontend development using Node.js, TypeScript, JavaScript, PHP, and Vue.js/React.js to build seamless and efficient enterprise systems. Skilled in leveraging AWS cloud architecture and implementing CI/CD pipelines for smooth deployment. Able to effectively self-manage in independent projects while collaborating within a team to drive innovation, optimize processes, and deliver high-performance solutions.

• Object Oriented Programming (OOP) • Service Oriented Architecture (SOA) • Microservices • Database Development • Data Structures and Collections • Concurrency and Multi-Threading • Project Management & Leadership

Languages: TypeScript, PHP
Web: HTML, CSS, JavaScript, NodeJS, React.js
Web Services: REST, SOAP, GraphQL, GRPC
Web/App Servers: Apache, Nginx
Frameworks: Nest.js, Vue.js, Bootstrap, TailwindCSS, Laravel
Databases: MySQL, MongoDB, Redis, DocumentDB, ElasticSearch
Design Patterns: Singleton, Factory, Observer, Adapter, MVC
SDLC: Agile, Waterfall
Tools: VSCode, Eclipse, Git, IntelliJ, MySQL Workbench, Docker, Jira, GitHub, Jenkins, Postman
Platforms: Linux, MacOS, AWS
Application/Software: Salesforce, Emarsys, Geolytix, Uberall, CircleCI

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).*

PIZZA HUT DIGITAL & TECHNOLOGY, Ho Chi Minh, Vietnam • 09/2018 – 08/2024
A company that drives worldwide innovation through digital solutions, enhancing customer experience and operational efficiency.

Technical Team Lead
Build Pizza Hut's next-generation e-commerce platform
- Designed and built a next-generation pizza e-commerce platform using Node.js, TypeScript, RESTful APIs, and AWS, handling 500K+ concurrent users and ensuring 99.98% uptime while reducing API latency by 50%.
- Engineered a serverless order processing system with AWS Lambda, DynamoDB, and Step Functions, enabling real-time order tracking and optimizing checkout speed by 20%, tailored specifically for high-volume pizza delivery operations.
- Optimized menu and order APIs by refactoring complex business logic, implementing Redis caching, and tuning SQL queries, reducing menu load time from 1.2s to 300ms and improving order placement speed under high traffic conditions.
- Integrated a cloud-native CI/CD pipeline with CircleCI, Docker, and ECS Fargate, achieving zero-downtime deployments, cutting deployment time from 30 minutes to under 5 minutes, and increasing release frequency by 40% to support rapid feature rollouts across multiple global markets.
- Developed a customized observability stack with New Relic and Datadog, implementing real-time anomaly detection and reducing downtime incidents by 60%, ensuring smooth operations during peak pizza-ordering hours.
- Optimized infrastructure costs by 25% through AWS auto-scaling, ECS Fargate tuning, ALB request routing, OpenSearch right-sizing, and RDS query optimization, reducing waste while maintaining high availability for a multi-region pizza delivery platform.

Technologies Used: *PHP, Nodejs, JavaScript, Golang, Vuejs, ReactJS, NestJS, AWS, CircleCI, Redis, MySQL, OpenSearch, DocumentDB.*

ZINIO COMPANY LTD, Ho Chi Minh, Vietnam ● 06/2014 – 09/2018
An online publishing platform that delivers digital magazines and convenient reading experience on any device worldwide.

Software Engineer Lead
Build a multi-channel publishing system

- Designed and developed scalable backend components using PHP, Laravel, and AWS, enabling seamless content management for over 500K+ users across multiple platforms.
- Developed a web platform for over 6,000 digital magazines, including GQ and National Geographic, leveraging PHP and AWS services to boost user engagement by 40%.
- Implemented CI/CD pipelines with Jenkins and Docker, optimizing deployment processes and reducing release times by 50%, while cutting infrastructure costs by 25% using AWS services.
- Led data migration from legacy systems to Zinio's modern platform, facilitating seamless transitions for major publishers like The New York Times & Amazon.
- Optimized system performance with caching, cloud computing, security enhancements, image aliasing, and big data processing, ensuring stability & high availability for millions of users globally.
- Managed task planning and assignment using Jira, streamlining workflow and reducing project delivery time by 20%, leading to improved collaboration and faster feature releases.

Technologies Used: PHP, Nodejs, JavaScript, ReactJS, AWS, Jenkins, Redis, MySQL, OpenSearch.

FPT TELECOM JOINT STOCK COMPANY, Ho Chi Minh, Vietnam ● 08/2011 – 06/2014
FPT Telecom Joint Stock Company, a leading telecommunications provider in Vietnam.

PHP Team Leader
Build Hosting services and share resources online

- Designed and built high-performance, scalable, and testable components for the Fshare.vn platform using Yii and PHP, improving application performance and enhancing user experience for millions of active users.
- Improved code quality across the development team by establishing code review processes and implementing Yii best practices, resulting in a 25% reduction in bugs and ensuring easier maintainability.
- Led the adoption of SCRUM methodology, organizing sprint planning, retrospectives, and daily stand-ups, resulting in a 20% faster delivery of new features and smoother team collaboration.
- Contributed to the success of Fshare.vn, earning recognition as an outstanding employee from FPT Telecom in 2013 for significant contributions to the platform's growth and success.

Technologies Used: PHP, MySQL, Redis.

ACADEMIC PROJECTS

Marharishi International University (2024)
Smart Study Buddy: A web application designed to help students enhance their learning experience by providing advanced AI-driven tools. Users can upload study materials such as PDFs, Word documents, or text files, which are processed and stored for easy access. The platform offers features like semantic search to quickly find relevant content, AI-generated summaries, automatic flashcard creation, and customizable quizzes. With multi-language support and an interactive dashboard to track learning insights, Smart Study Buddy combines cutting-edge technology with user-friendly design to make studying more efficient and personalized. Utilized Nodejs, ReactJS, MongoDB, 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 Programming, Modern Web Applications, Algorithms, Web Application Architecture

Bachelor Degree in Software Engineering
University of Economics Ho Chi Minh City, Ho Chi Minh, Vietnam (05/2024)

Associate Degree in Information Technology
Ho Chi Minh City Industry and Trade College, Ho Chi Minh, Vietnam (09/2010)