Cao Dang Quoc Duong

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WORK EXPERIENCE

Fashion E-commerce Site   **November 2024 - February 2025**
Full Stack Engineer   *Thu Duc, HCM*

- Led the development of the fashion e-commerce platform for a retail client, delivering a scalable solution using **React, TypeScript, NestJS, PostgreSQL and AWS**.
- Implemented **AWS Lambda** serverless functions for intensive photo upload and resize operations, reducing processing time by **37%** and improving user experience during product image uploads.
- Optimized application performance by implementing lazy loading, code splitting, and caching strategies, resulting in **60%** faster page load times.
- Implemented infinite scrolling for product browsing using **React Query and Intersection Observer**, leading to a **30%** boost in user engagement time and smoother navigation.

FPT Software   **November 2023 - April 2024**
Software Engineer Intern   *Thu Duc, HCM*

- Adapted quickly to multiple roles **(Team Lead, Scrum Master, Frontend Engineer)** under mentor guidance, demonstrating flexibility and a growth-oriented mindset.
- Developed **40% of complex frontend features using React and TypeScript**, including multi-step forms, rich-text editors, and drag-and-drop interactions, significantly enhancing user experience.
- Facilitated all five core **Scrum events** (Sprint Planning, Daily Scrum, Sprint Review, Sprint Retrospective, and Sprint execution) with a **99% on-time delivery rate** and full alignment to **Agile** best practices.
- Reviewed and approved **200+ merge requests**, guaranteeing high code quality, consistent standards, and a maintainable codebase.
- Automated **200+ CI/CD build, test, and deployment cycles**, reducing manual release efforts by **66%**.
- **Mentored 3+ team members** on React best practices and unit testing, leading to higher code quality, improved test coverage, and fewer production bugs.
- Managed 100+ tasks using Jira, optimizing workflow, project visibility, and team collaboration.
- Communicated effectively in **English with 2+ mentors and stakeholders across 20+ meetings**, ensuring clear project alignment and progress updates.

MyYoutubeKaraoke Extension   **August 2023 - October 2023**
Frontend Engineer   *Thu Duc, HCM*

- Developed new features using **React, TypeScript, and MUI**, enhancing product functionality and improving the user experience for **180+ active users**.
- Product: MyYoutubeKaraoke

EDUCATION

FPT University   **September 2021 - June 2025**
Bachelor of Software Engineering

- GPA: 3.4/4.0 | Recognized for outstanding academic performance over **6 consecutive semesters**.
- **3+ years of team leadership experience**. Conducted hands-on coding sessions for students.

CERTIFICATIONS

- **TOEIC 835/990** (05/2025) - Certificate
- **AWS Certified Cloud Practitioner** (10/2024) - Certificate
- **Software Development Lifecycle** (08/2023) - Certificate

PROJECTS

Personal Trainer For You   **NextJS | TypeScript | React Native | NestJS | SQL Server | AWS**

- **Led a team of 4 engineers** to build a cross-platform website and mobile app connecting personal trainers with customers, enabling seamless service discovery and booking.
- Implemented a **real-time messaging system with WebSocket**, enhancing trainer–client interaction and driving a **25%** increase in engagement.
- Built a **cron job** to automate attendance tracking, reducing manual effort by **80%** and increasing accuracy of session status updates by eliminating human error.
- Delivered push and in-app notifications, reducing missed training sessions by **30%**.
- Designed a resilient AWS architecture **(EC2, Amplify, RDS, S3, IAM)** that sustained **99.95% uptime**.
- Integrated in-app camera uploads, securely storing **1,000+ progress photos on Amazon S3 with zero data-loss incidents**.
- Integrated secure payment processing via **VNPAY**, achieving a consistently high transaction success rate.
- Added easy English-Vietnamese language switching (i18n), making the app accessible to more users.
- Developed interactive data visualizations and charts, enabling clear and effective progress tracking for users.
- Website | Source Code

Smart Workout   **ReactJS | TypeScript | React Native | ExpressJS | MongoDB | AWS**

- **Led a team of 3 engineers** to build a smart workout platform (web and mobile) that lets users personalize exercises and meals, and start workouts without manually remembering reps, sets, or routines.
- Implemented infinite scrolling using **React Query and Intersection Observer**, replacing pagination and improving user experience.
- Simplified sign-up with **Google OAuth**, making it easier for users to join and increasing completed registrations.
- Integrated an interactive calendar to centralize session and event scheduling, improving clarity and organization for users.
- Source Code

Book E-commerce Site   **React | TypeScript | ExpressJS | MongoDB**

- Led the development of a full-featured book e-commerce website, delivering a seamless user experience and a robust order management system.
- Integrated **PayPal API**, providing a secure, streamlined checkout experience and enhancing customer payment convenience.
- Source Code

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, Java, SQL, HTML, CSS, C++.
- **Libraries/Frameworks:** NextJS, ReactJS, React Native, Jest, Socket.IO, Redux Toolkit, Zustand, React Query, TailwindCSS, Shadcn/ui, MUI, Ant Design, Spring Boot, NestJS, ExpressJS, NodeJS, Prisma, Redis, DynamoDB, SQL Server, PostgreSQL, MongoDB.
- **Developer Tools:** AWS, Postman, Git, Jira.

SOFT SKILLS

- **Communication:** Led daily stand-ups, summarized tasks clearly, encouraged team collaboration, and resolved conflicts empathetically.
- **Adaptability:** Quickly mastered Scrum methodologies and Jira task management during internship, rapidly adapting to new workflows.
- **Leadership:** Led multiple university teams for 3+ years, consistently delivering successful projects and fostering teamwork.
- **Time Management:** Met deadlines reliably, and maintained buffers for testing and bug resolution.