Ray Doan

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Education

VNU University of Engineering and Technology — Hanoi, Vietnam
Bachelor's in Information Technology, GPA: 3.64/4.0 — *Aug. 2017 – June 2021*

Experience

Software Engineer — July 2023 – Present
VTI — *Hanoi, Vietnam*

- Engineered real-time IoT, MES, and WMS solutions, boosting production visibility by **35%** and cutting latency by **40%**
- Built MQTT telemetry services processing **5M+ daily events** from **200+ machines** with **<200ms latency**
- Streamed PostgreSQL/MongoDB data to **ClickHouse** via CDC, cutting query times from **15s to <300ms** on **10M+ records**
- Developed streaming report pipelines supporting exports of up to **1M rows** (Excel max limit) without memory overflow

Software Engineer — Aug. 2022 – June 2023
EVNFinance — *Hanoi, Vietnam*

- Architected backend microservices (NestJS, PostgreSQL, MongoDB) processing **100K+ loan applications** with **99.9% uptime**
- Developed backend for investment app using **Kafka** and **Docker**, serving **50K+ daily active users**
- Optimized DB queries and Redis caching, cutting overall API response latency by **45%**

Software Engineer — June 2021 – July 2022
Merchize — *Hanoi, Vietnam*

- Built 2D/3D mockup engines (Canvas, Three.js), reducing render time by **60%** (**3s to <1.2s**) and boosting conversion by **15%**
- Integrated interactive 3D product preview tools serving **10,000+ active sellers**

Software Engineer Intern — June 2018 – May 2021
Merchize — *Hanoi, Vietnam*

- Built e-commerce order sync integration (Amazon, eBay, Etsy) processing **20,000+ daily orders**
- Developed ad-spy tools and Chrome extensions tracking **5M+ ad creatives** across **100K+ campaigns**

Projects

IoT & MES Analytics Pipeline | *NestJS, MQTT, ClickHouse, Redis* — Jan. 2024 – Present

- Engineered high-throughput IoT telemetry pipeline processing **5M+ daily events** (<200ms latency) and CDC to ClickHouse
- Built streaming Excel report generator supporting up to **1M rows** without memory overflow

3D Customizer & Order Sync Engine | *Node.js, Three.js, React, MongoDB* — June 2021 – May 2023

- Developed 3D mockup rendering system cutting render time by **60%** (**<1.2s**) for 10K+ sellers
- Built multi-platform order sync engine handling **20K+ daily orders** and ad-spy tracking **5M+ ad creatives**

Technical Skills

Languages: JavaScript, TypeScript, Python, SQL
Frameworks & Libraries: Node.js, NestJS, ReactJS, React Native, Redux, Three.js, Tailwind CSS
Databases & Messaging: MongoDB, PostgreSQL, MySQL, ClickHouse, Redis, Kafka, RabbitMQ, NATS, MQTT
Architecture & Tools: Microservices, Event-Driven Architecture, Docker, CI/CD, Git, Linux