

Nem Vandy

Lead Backend Engineer

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📍 Phnom Penh, Cambodia
🌐 [LinkedIn](#)

Backend Engineer with 6+ years of experience in scalable systems and database design. Skilled in complex queries, AI-driven development, and maintainable solutions.

EDUCATION

Bachelor of Computer Science
Royal University of Phnom Penh
📅 2016 - 2020
📍 Phnom Penh, Cambodia

SKILLS

- **Languages/Frameworks:** Node.js, NestJS, Express.js
- **APIs:** RESTful API design, Integration, and Optimization
- **Databases:** PostgreSQL (Advanced Complex SQL), MySQL, MongoDB, Redis (Caching, Pub/Sub)
- **Tools:** Git, Docker, CI/CD Pipelines
- **Design & Architecture:**
 - Entity-Relationship (ER) Modeling for Large-Scale Applications
 - Database Schema Design & Optimization
 - System Architecture & Flow Diagrams (UML, Sequence Diagrams)

WORK EXPERIENCE

HRMS Developer Lead

Advanced Bank of Asia (ABA Bank)

📅 Feb 2023 - current 📍 Phnom Penh

- Developed a Core HR system for a bank, optimizing workforce management and operational efficiency.
- Designed ER models and database schemas for scalable and efficient data handling.
- Optimized complex queries to enhance system performance and reliability.
- Built reporting and dashboard solutions for management insights and decision-making.
- Developed a Leave, OT, and Shift management system, streamlining HR processes.
- Digitized workflows to improve productivity and reduce manual operations.
- Led and guided the team, empowered them through mentorship and skill development, and made critical technical and architectural decisions, ensuring the scalability, reliability, and security of the HRMS.

Senior Back-End Engineer

IG International Group

📅 Sep 2019 - Jan 2023 📍 Phnom Penh

- Developed a social media platform for content creators, enhancing user engagement and content management.
- Built an eCommerce platform for an electronics store, optimizing online sales and operations.
- Designed a POS system for a jewelry store, streamlining transactions and inventory management.
- Integrated third-party services for Kofi Cambodia, ensuring seamless system connectivity.
- Provided onboarding support and guidance for new team members.
- Delivered projects on time, exceeding client expectations with successful digital transformations.

COURSE

Java Programming

Korean Software HRD January 2019

Web Development

IT Step Academy April - September 2019