Lưu Viết Hải

SENIOR BACKEND ENGINEER

✉ luuhai.hn48@gmail.com 📞 +84 90 327 3285 📅 1997

Websites and Social Links

Personal website: luuhai48.github.io
LinkedIn: linkedin.com/in/luuviethai

Summary

Backend Engineer with over 6 years of experience building and scaling backend systems serving thousands of users. I recently completed a Technical Lead role at Breadstack, where I led the team developing the Live Chat platform with many features for the product. I have experience working with Node.js and Python, designing complex databases (PostgreSQL, MongoDB) and deploying microservices. I have contributed to building many scalable applications and solutions. In my spare time, I keep broadening my perspective through reading and learning new technologies such as Golang, Java and modern JavaScript frameworks.

Experience

Technical Lead, Breadstack Technologies Inc, Hanoi

Jun 2024 — Jan 2026

Led technical direction and architecture decisions for the Live Chat platform development.

- Managed a team of 5 engineers, established code review process and technical standards.
- Developed new features: Visitor Tracking, Ticket System, Email Marketing, Real Time Notification...
- Architected backend based on microservices using Node.js, improving system scalability.
- Designed and optimized database schema on MongoDB, ensuring no bottlenecks under high traffic.
- Mentored junior engineers through pair programming, training and technical knowledge sharing.

- Provided support consulting for Delivery App: API cost optimization, improved API performance and critical production bug fixes.
- **Key technologies:** Node.js, Python, PostgreSQL, MongoDB, Redis, Docker, Kubernetes, Google Cloud, React.js.

Software Engineer, Breadstack Technologies Inc, Hanoi
Jun 2020 — Jun 2024

- Developed and maintained backend APIs serving thousands of concurrent users with 99.9% uptime.
- Built real-time features using WebSocket and queue systems for Live Chat, Visitor Tracking, Report, ...
- Optimized database queries, reducing average response time.
- Collaborated with frontend team to integrate React.js components with backend services.
- Participated in client progress reports and made architecture decisions.
- **Key technologies:** Node.js, Python, MongoDB, Redis, Docker, Kubernetes, Google Cloud, React.js.

Software Engineer, MEC International, Hanoi
Oct 2018 — Jun 2020

- Developed web ERP application for the company to manage resources: HR, tasks, construction projects, materials, reporting...
- Built company website using WordPress.
- **Key technologies:** Laravel, PHP, Docker, MariaDB, Gitlab

Full Stack Freelancer, Trésor Solution, Hanoi
Jan 2025 — Current

- Designed complete system architecture and database for backend services for PyPipe Vietnam's ERP system: HR, e-signature, projects, partners, production pipeline, workload, reporting...
- Developed frontend features using React.js.
- Deployed production application using Docker on Ubuntu.
- **Technologies:** Node.js / Java, PostgreSQL, React.js, Docker, Ubuntu, Cloudflare.

Personal Projects
A few other freelance projects that demonstrate and apply my skills in system design and solo project delivery:
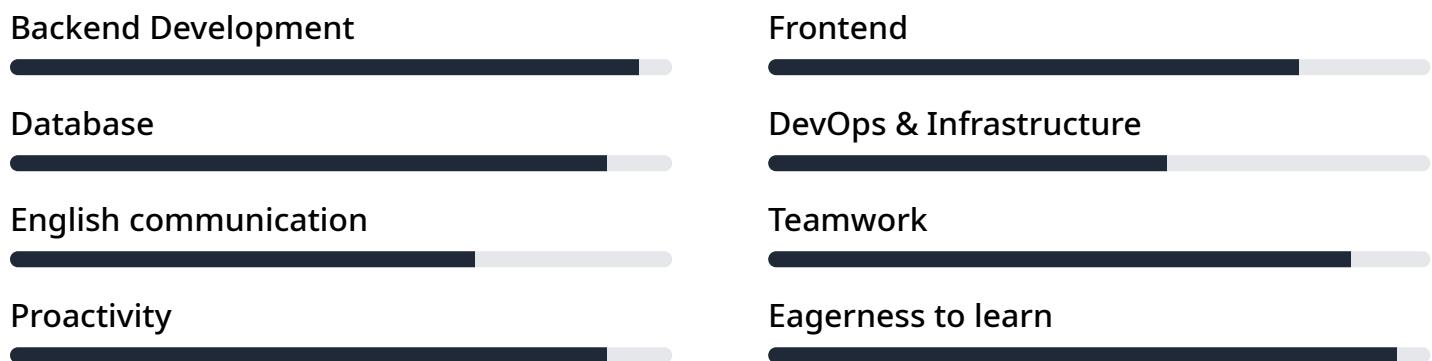
- Online novel reading website.
- Website for managing vehicles, drivers and tasks for a transport company.
- WordPress website.
- Multiple landing pages

Education

Bachelor's degree, University of Technology and Business, Hanoi
2016 — 2019

Skills

Backend Development

Frontend

Database

DevOps & Infrastructure

English communication

Teamwork

Proactivity

Eagerness to learn

Languages

English

Hobbies and Interests

- Gaming
- Travel
- Self-learning new programming languages
- Electronics and programming