Lam Le Ly – Software Engineer

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# Education

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| **Vietnam Maritime University** | Hai Phong, Vietnam |
| Bachelor of Software Engineering. GPA: 3.31/4.0 | September 2021 – August 2025 (expected) |
| **Academic Achievements** |  |
| * **3rd Place Winner** - School-level Computer Science Olympiad Competition | |
| **Certifications and Courses:** | |
| * TOEIC Certification * Microsoft Office Specialist (MOS) | |

# Skills & Core Knowledge

**Programming Languages:** Java, C++, SQL, JavaScript, PHP

**Software & Tools:** Postman, Git, MongoDB, MySQL, PostgreSQL

**Frameworks:** Node.js, Express.js, Vue.js, Laravel

**Languages:**

* English: Basic communication skills and ability to understand technical documentation

# Projects

**SanhuaAutoParts E-commerce Platform** (https://sanhua-auto-parts.vercel.app/)

**Technologies:** Vuejs, Laravel, PostgreSQL

* Developed full-stack e-commerce platform for automotive parts with product catalog, shopping cart, multi-gateway payment integration, real-time chat support, product reviews, and order status tracking
* Built **RESTful APIs** using **MVC architecture** to enable efficient and scalable communication between the client and server
* Secured API access with JWT-based authentication and role-based authorization mechanisms
* Optimized performance with lazy loading, route-level code splitting, and SEO-friendly meta tags for better user experience and search visibility
* Deployed Vue.js on Vercel with CI/CD and hosted Laravel with PostgreSQL on Render for scalable deployment

**IoT Autonomous Vehicle Control System** (https://github.com/lamll301/btl-iot)

**Technologies:** Arduino, C++, Flutter, Firebase, Ultrasonic Sensors, Motor Controllers

* Developed a smart autonomous vehicle system supporting both real-time remote control and self-navigation with ultrasonic-based collision avoidance
* Built a cross-platform Flutter app integrated with Firebase Realtime Database for cloud-based vehicle control and live data monitoring
* **Programmed Arduino with C++ to interface with ultrasonic sensors and motor controllers, ensuring precise navigation and reliable obstacle avoidance in dynamic environments**
* Optimized system performance for low-latency communication between the vehicle and the cloud, enhancing responsiveness and user experience

**Personal Portfolio** ()

**Technologies:** HTML, CSS, JavaScript, Tailwind

* Developed a responsive and modern personal portfolio to showcase skills, projects, and professional background
* Deployed the site on GitHub Pages for efficient hosting and easy version control

**Watch Shop** (https://github.com/lamll301/watch-shop)

**Technologies:** Node.js, Express.js, MongoDB

* Developed a responsive e-commerce platform using Node.js, Express.js, and MongoDB for efficient product and user data management
* Created a user-friendly front-end interface to ensure seamless navigation and an intuitive shopping experience
* Optimized database queries and server performance to enhance application speed and scalability

# Hobbies & Activities

* In my free time, I enjoy reading books, jogging, and listening to music to relax and recharge
* I also work on programming projects to enhance my skills and apply new knowledge. My projects can be viewed at [github.com/lamll301](https://github.com/lamll301)
* Additionally, I solve coding challenges on LeetCode to sharpen my problem-solving skills and improve algorithm efficiency