CONTACT

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in baolokx1

SKILLS

Languages & Tools:
Proficient in C, Python;Using LLMs framework like LLamaIndex, Langchain, AzureOpenAI; Technologies like JavaScript,React/Tailwind and FastAPI,...

Generative AI:
Experience with RAG concepts, Vector Database, AI Agents, Prompt Engineering,...

Automation & CI/CD:
CI/CD with Jenkins; Python automation scripts and setup/maintaining Jenkins pipelines.

AI/ML Applications:
Implemented/Designing Generative AI application for real-world solutions.

Project Management:
Full lifecycle management, Agile/Scrum, stakeholder engagement, Google Project Management Certificate.

LANGUAGES

IELTS 6.0 | 04/2022

CERTIFICATES

Google Project Management Certificate

End-to-end project management with Agile/Scrum tools, 100+ PMI learning hours.

Automotive SPICE - Key to Excellent Software Quality (Bosch internal training)

Basic understanding of Automotive SPICE and ISO-26262.

VIETNAM NATIONAL UNIVERSITY HO CHI MINH CITY
HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY

LƯU BẢO LONG

SOFTWARE ENGINEER

INTRODUCTION

Driven and professional, I am a Software Engineer with a solid foundation in building tools to optimize workflows, and a strong focus on generative AI and LLMs solutions. My hands-on experience in leveraging AI for efficient solutions underscores my commitment to innovation. I thrive on creating reliable, cutting-edge systems that redefine possibilities in the AI landscape.

EDUCATION

Ho Chi Minh City University of Technology - Vietnam National University Ho Chi Minh City (Bach Khoa University) - Major: Computer Engineering (2022 - 2026)
GPA: 3.3/4.0

WORK EXPERIENCE

Bosch Global Software Technologies (BGSV) - Embedded Engineer Internship (Jan - Jul 2025)

Pioneered Embedded AI Solutions
- Founded and led a dedicated AI subgroup, serving as a principal Embedded AI Developer.
- Spearheaded the integration of large-model inference into ISOLAR-AB for AI-driven automation, significantly reducing configuration time and manual errors.
- Developed an AI-powered application for auto-optimizing spelling checks in technical documents (Jenkins integration).

Led Strategic AI Project Development
- Initiated, architected, and developed the RTA-CAR Configurator project, embedding AI into ETAS's ISOLAR-AB to optimize AUTOSAR configuration workflows.
- Successfully secured funding from Bosch and ETAS and achieved official integration into ISOLAR-AB for the usages of all ETA/ETAS developers.

Project Management & Leadership
- Collaborated extensively with cross-functional teams and stakeholders including partnering on Bosch's "Devmate" in Viet Nam, "SUM" team in Italy and conducting developer-department pain-point analysis for end-to-end AI solution design.

Process Optimization & Knowledge Transfer
- Optimized and restructured CI/CD pipelines (Jenkins, RTA-SUM) for AUTOSAR-based products.
- Proactively conducted internal AI training sessions and authored a comprehensive guide titled "AI Automation from ZERO to HERO" for new hires

PROJECTS

EmbeddedChat - AI-Powered Workflow Automation Platform - Full-Stack Developer
(Jan 2025 - Present)

- Built visual workflow automation platform with drag-and-drop editor using **React Flow** and **TypeScript**, enabling non-technical users to create complex workflows with 15+ pre-built components
- Implemented **real-time execution monitoring** via WebSocket, reducing debugging time by 70% with step-by-step workflow tracking and live status updates
- Integrated multiple **AI providers** (OpenAI GPT, Claude AI, Ollama) with dynamic prompt engineering and unified response parsing system
- Architected **scalable backend** with FastAPI, asyncio for concurrent processing, PostgreSQL for data persistence, and Redis for caching
- Agentic Workflow, Document Processing, Chatbot,.. will be developed soon

IoT Farming System- A comprehensive Smart Agriculture IoT solution
(May - July 2025)

Led backend and AI development for an end-to-end **IoT farming system** using ESP32, **Flask**, **PostgreSQL**, and **TensorFlow**. Designed scalable APIs and real-time data pipelines to control environmental parameters. Developed time-series forecasting models to predict conditions and enable autonomous responses

- Engineered secure **RESTful APIs**, **WebSocket server**, and **database schema**
- Built ML models for sensor data prediction and automated control logic
- Achieved 80% reduction in manual monitoring through automation
- Delivered scalable, fault-tolerant architecture adaptable to different farm sizes