Bui Nguyen Mao

SENIOR SOFTWARE ENGINEER

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OVERVIEW

As a Senior Fullstack Software Engineer, I have over 6 years of experience with Angular and 4.5 years with FastAPI. I am proficient in Scrum, RESTful API design, and modular programming. I stay updated with the latest AI trends and leverage AI tools to optimize my workflow and significantly improve performance. Known for my problem-solving skills, I work effectively both independently and within a team. I am driven by continuous learning and am eager to apply my expertise to new and challenging projects.

SKILLS

Programming language	Python, Typescript, HTML, CSS, JS
Framework	Angular, NextJS, React, FastAPI, Flask, Langchain
Database	SQLite, PostgreSQL, MongoDB, Clickhouse
Tools	Git, Cursor IDE, Github Copilot, OpenCode CLI, N8N, Prefect
Environment	Linux, Azure Cloud Services, Google Cloud Platform, Docker, K3S
Others	English Spoken, Agile/Scrum, Teamwork and Collaboration, Remote working

WORK EXPERIENCE

Orient Software Development - Project: Dekra Apr 2022 - Present

Senior Software Engineer - Full-time

Team size: 10 | **Tech stack:** Angular 10/14, Ionic 5, TypeScript, Cordova, Azure Services, Jira.
Overview: led the frontend development of a cross-platform (Web & Mobile) application for a major German client, streamlining building and vehicle inspection processes.
Leadership: Led a 10-member team to deliver a cross-platform (Web/Mobile) inspection system for a major German client.
Technical Execution: Architected responsive UIs and offline data synchronization; managed CI/CD pipelines via Azure DevOps.
Stakeholder Management: Directly handled technical demos and requirement gathering with international clients.
Impact: Delivered a feature-rich, complex application on schedule with high praise for performance and code quality.

Independent Fullstack & AI Engineer | Upwork Freelance Jun 2023 - Aug 2025

Senior Software Engineer - Remote Part-time

Team size: 1 (Solo) | **Tech stack:** FastAPI, Langchain, Qdrant (RAG), Generative AI, Angular, NextJS, Azure.
Overview: Delivered end-to-end software solutions for 10+ international clients, maintaining a 100% Job Success Score and Top Rated Plus status on Upwork. Specialized in integrating AI into business workflows and managing long-term remote projects (4+ months each).
Impact: Delivered solutions for 10+ international clients with **100% Job Success** and **Top Rated Plus** status.

AI Solutions: Specialized in **RAG-based** Generative AI applications using Langchain and Qdrant to automate complex workflows.
End-to-End Dev: Engineered high-performance platforms from scratch and architected scalable microservices on **Azure Cloud**.
Project Ownership: Managed the full development lifecycle independently, ensuring 5-star delivery across global time zones.

TMA Solution Co., Ltd - Project: Super Concept Nov 2020 - Apr 2022

Sofware Engineer - Full-time

Team size: 22 | **Tech stack:** Angular 12, TypeScript, PrimeNG, Progress 4GL, GitLab, RxJS.
Overview: Contributed to the development of a web-based platform for Australian customers to manage Self-Managed Superannuation Funds (SMSFs), focusing on enhancing application efficiency and regulatory compliance.
FinTech Development: Contributed to a complex SMSF management platform for the Australian market, ensuring strict **regulatory compliance**.
Technical Execution: Engineered responsive UIs and optimized real-time data handling using **RxJS** and **PrimeNG**.
Code Quality: Enforced high coding standards through rigorous **code reviews** and mentored junior developers within a large-scale Scrum team (22 members).
Impact: Delivered a secure, user-friendly system that simplified fund administration and received high stakeholder approval for performance.

CERTIFICATIONS

Google IT Automation with Python Specialization	2025
Google Project Management: Specialization	2025
Udemy - ChatGPT and LangChain: The Complete Developer's Masterclass	2024
AZ-900 Azure Cloud Fundamentals	2022
TOEIC Certificate - 745/990	2020

EDUCATION

University of Information Technology VNU-HCM Sep 2016 - Sep 2020

Bachelor's Degree in Information Technology - GPA: 8.0/10

- UIT Natural Language Processing member.
- Top 3 scientific research topics of UIT students 2020 - Project Leader.
- Research Paper: "Conversational Machine Reading Comprehension for Vietnamese Healthcare Texts." International Conference on Computational Collective Intelligence. Springer, Cham, 2021.

INTERESTS

Technical Passions: Actively maintaining a **K3s homelab** and exploring **self-hosted** solutions to deepen my understanding of infrastructure. Currently focused on developing **Local AI SaaS** projects to stay ahead in the rapidly evolving AI landscape.
Personal Projects: I enjoy building mini-projects to experiment with new technologies; more details can be found on my **portfolio website**.
Beyond Coding: I am an avid reader and music enthusiast. I also find balance and focus through **aquarium care**, a hobby that rewards patience and attention to detail.

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