

Mai Linh Nguyen

Freelance Software Engineer

About me

I'm passionate about building great products that make people's lives easier. I have over 6 years of experience crafting innovative digital experiences, ranging from small startups to the world's biggest brands.

Based in Berlin, I have successfully collaborated with remote teams across various time zones in the past, and I'm excited to partner with you!

Portfolio: Python projects


OMNI - Digital Healthcare Platform for the Elderly

Technologies Used: Python, Starlette, Redis, AWS

Guiding freelancers and coaching junior developers to get up and running with the codebase. Leading and building async web services in Python using Starlette - a lightweight ASGI framework/toolkit. These web services run asynchronously and handle requests, such as processing sensor data, at scale.

Issuu - restaurant menus as flipbooks

Technologies Used: Python, FastAPI, Google Custom Search JSON API, Issuu API

Developing a stand-alone Python service that extracts menu and data from a restaurant's website, transforms it into an [Issuu flipbook](#)  using Issuu's API, and forwards the generated flipbook to the restaurant for advertising, showcasing Issuu's capabilities.

Charles - Automated KPI report and billing system

Technologies Used: Python, FastAPI, Google Cloud Platform

Creating a platform for the customer success team to gather and report KPIs. Additionally, developing an automated billing system for the finance department. In both cases, utilizing serverless Python functions that run periodically or can be triggered manually.

LabTwin - ENHANCED LAB DIGITIZATION WITH AI AND VOICE

Technologies Used: Python, Microsoft Azure CrisAI, Flask, FFMPEG

Building customized data processing tools and a data pipeline for the continuous development and integration of machine learning models.

Nitro - Digital Draughtmaster

Technologies Used: Python, AWS IoT, PyPI qrcode

Building a customized CI/CD and provisioning pipeline for embedded software development. The CI Python pipeline runs system tests and unit tests on each pull request. The Python provisioning pipeline handles software flashing onto IoT devices and generates QR codes for device setup.

Apollo - disrupting the HVAC industry

Technologies Used: Python, Arduino, Rapid Prototyping

Analyzing the potential for disruption in the HVAC industry within the mid-level budget hotel sector in the North American market. Creating a prototype that costs over 10 times less than the client's white-label solution and executing it using Python scripts.

Coaching

Coaching Topics

1. Python Basics: Start with fundamental Python concepts—variables, data types, loops, and functions.
2. Platform Introduction: Familiarize them with the specific Python platform they'll be using—its features, interface, and capabilities.
3. Data Handling: Teach data manipulation, analysis, and visualization using Python libraries like Pandas, NumPy, and Matplotlib.

Coaching Approach

1. Tailored Learning Path: Assess the learner's current knowledge and skill level to create a personalized learning path.
2. Hands-on Exercises: Assign exercises and projects to reinforce learning and build practical skills.
3. Regular Feedback: Provide constructive feedback on code and projects, guiding them towards improvement.
4. Encourage Exploration: Encourage them to explore beyond the basics, promoting self-learning and experimentation.

Questions?