Serhii Hapkalov

**Senior Full Stack | AI Engineer**

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# SUMMARY

Experienced and versatile senior full stack engineer with over 8 years of proven expertise in building high-performance, scalable, and user-centric web applications across diverse industries. Adept in both front-end and back-end development using modern technologies such as React, Vue, Angular, NodeJS, Python, Django, Golang, and cutting-edge AI/ML tools including LLM, RAG, and Langchain. Demonstrated ability to design robust and maintainable architectures, lead complex migration projects from monolithic to microservices, and deliver innovative AI-driven products that streamline deployment cycles. Strong background in cloud infrastructure management (AWS, Azure, GCP), DevOps practices, CI/CD automation, and database optimization with SQL and NoSQL solutions. Known for mentoring development teams, fostering collaborative environments, and consistently driving projects to successful completion within fast-paced Agile settings. Passionate about leveraging emerging technologies to create impactful solutions and improve overall engineering efficiency.

# SKILLS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **React** | **Python** | **JavaScript** | **HTML** | **Git** |
| **Next** | **Django** | **TypeScript** | **CSS** | **Docker** |
| **Vue** | **LLM** | **PHP** | **TailwindCSS** | **LangChain** |
| **Nuxt** | **RAG** | **GraphQL** | **MaterialUI** | **Restful API** |

# EXPERIENCE

## Senior Full Stack Engineer

### CyberCraft Inc.

 05/2024 - 04/2019  Lviv, Ukraine

* Developed a new website for LMS using TypeScript, Next.js, React, MaterialUI, and TailwindCSS.
* Automated testing and E2E testing suites using Selenium, Cypress, and Jest.
* Built RESTful and GraphQL APIs for enterprise-level applications, enabling seamless communication across services.
* Migrated an existing Python project to Go to improve performance, scalability, and maintainability.
* Developed scalable and efficient microservices using Go (Golang) to enhance system modularity and performance.
* Delivered several AI products using LLM, RAG, Langchain, Pinecone, NLP, and DeepAI, streamlining deployment cycles.

## Fullstack Developer

### Agilites

 11/2016 - 03/2019  Kharkiv, Ukraine

* Delivered robust backend systems with Python, Django and Golang across healthcare and finance sector.
* Built and maintained RESTful APIs and serverless functions deployed on GCP.
* Built the back-end with Python and a customized framework to provide the admin UI and a RESTful API for the streaming service.
* Enhanced UX/UI in collaboration with designers using Tailwind CSS and Material UI.
* Assisted in frontend development using HTML, CSS, and JavaScript, contributing to ecommerce and CMS projects.

# EDUCATION

## Bachelor of Computer Science

### V.N. Karazin Kharkiv National University

 04/2011 - 12/2015  Yuxi, China

<https://www.beyondcreative.gg/>

This was the first website I created while working at **Agilite**. It was a marketing site for **Beyond Creative**, a company that specializes in creating custom Fortnite maps. I was the sole developer on the project and built the entire site from scratch using **Next.js** and **Sanity**, closely following the Figma design to deliver a polished and responsive user experience.

#### **eCommerce OpenAI GPT3.5 Chatbot**

<https://mcourt.eu/>

An OpenAI GPT-3.5-powered conversational retail assistant for product recommendation and as the AI/ML engineer and back-end developer, I built vector pipelines to ingest the product database of an eCommerce website and a streaming back-end chat API deployed on AWS. I made it entirely on a Python FastAPI stack with vector DB and PostgreSQL.

#### **Immich**

[https://immich.app](https://immich.app/)

A modern, world-class photo management solution with scalable cloud architecture and impactful AI functionalities.  
It features scalable video transcoding, facial recognition, and semantic search, with a unique set of industry-leading techniques across AI, data processing, APIs, and UI/UX integration.

#### **ZipHR**

<https://ziphr.co/>

Sass for companies to manage every aspect of an employee's tenure, from onboarding to daily schedules and termination. I spearheaded calendar optimizations and the development of several new additional modules.

**oscer.ai**

<https://www.oscer.ai/>

A platform that provides a chat-bot for exam emulation for medical students.  
The back end was created with Django, Django REST Framework, Docker, Docker-Compose, and PostgreSQL.  
The front end used React/Redux and is a responsive design—it was important to attract mobile users.  
I implemented a significant part of the front end and the back end and also was involved in some deployment activities with Amazon ECS.