

Alex Tsyhanok

Senior Full Stack Developer (AI / Python / JavaScript / TypeScript)

 Ukraine

 alex@tshnk.dev

PROFESSIONAL SUMMARY

Full Stack Developer with more than 6 years of experience building scalable SaaS and web applications in international environments. Specialized in Python (Django, FastAPI, Flask) and modern JavaScript/TypeScript ecosystems (React, Next.js, Node.js). Experienced in designing and developing microservices-based architectures, distributed systems, and RESTful APIs. Strong focus on performance optimization, scalability, and maintainable system design. Hands-on experience with cloud-native development (AWS, Docker, CI/CD pipelines) and building multi-tenant SaaS platforms. Proven ability to work in Agile environments, collaborate with cross-functional teams, and take ownership of features from concept to production.

Education

Chernivtsi National University

Master's Degree in computer Science (2018 – 2023)

Technical Skills

Languages: Python, JavaScript, TypeScript

Front-end: React, Next.js

Back-end: Django, Flask, FastAPI, Node.js, NestJS, Express

Databases: PostgreSQL, MySQL, MongoDB

Cloud & DevOps: AWS, GCP, Azure, Docker, CI/CD pipelines

Testing: Jest, Storybook, unit testing, integration testing

Architecture: microservices, distributed systems, system design, performance optimization

Other: REST APIs, GraphQL, Stripe integrations, AI API integrations, SaaS, multi-tenant systems

Methodologies: Agile, Scrum

PROFESSIONAL EXPERIENCE

Freelance Senior Full Stack Developer

Sep 2024 – Present

- Designed and developed scalable full-stack applications using Python (FastAPI, Django) and React/Next.js
- Built and maintained RESTful APIs and back-end services for production systems
- Designed microservices-based architectures for modular and scalable systems
- Integrated third-party services including Stripe payments and AI APIs
- Deployed applications using Docker and AWS, implementing CI/CD pipelines
- Improved API performance, reducing latency and increasing system scalability
- Wrote unit and integration tests to ensure system reliability
- Worked in Agile environments, collaborating with international clients and stakeholders

Middle/ Senior Full Stack Developer – MaybeWorks

Apr 2022 – Sep 2024

- Developed and maintained production-grade web applications using Python and JavaScript/TypeScript
- Participated in full software development lifecycle (design, development, testing, deployment)
- Improved application performance and system reliability
- Refactored legacy codebases, enhancing maintainability and scalability
- Collaborated with product managers and designers in Agile environment

Junior Back End Developer – SoftServe

Jan 2020 – Mar 2022

- Developed and maintained production-grade web applications using Python and JavaScript/TypeScript
- Participated in full software development lifecycle (design, development, testing, deployment)
- Improved application performance and system reliability
- Refactored legacy codebases, enhancing maintainability and scalability
- Collaborated with product managers and designers in Agile environment

PROJECTS

1. AI-Powered Marketing SaaS Platform

Duration: Sep 2024 – Aug 2026

Role: Full Stack Developer

Description: AI-powered, multi-tenant SaaS platform designed to automate and optimize marketing campaigns across messaging and digital channels. The system enables businesses to manage digital assets, orchestrate campaign workflows, and leverage AI-driven insights for improved engagement and performance.

Responsibilities:

- Designed and implemented multi-tenant architecture, ensuring scalable client isolation and secure data separation across multiple organizations
- Developed back-end services using Python (FastAPI), focusing on performance, scalability, and clean API design
- Built a Digital Asset Management (DAM) system for uploading, storing, organizing, and retrieving media assets
- Designed and implemented file upload APIs, integrating Amazon S3 for scalable and reliable object storage
- Modeled and optimized PostgreSQL database schema for managing assets, campaigns, and user data
- Developed campaign automation workflows, enabling scheduling, triggering, and execution of marketing campaigns
- Built back-end logic for messaging workflows across multiple channels
- Integrated AI APIs to support intelligent campaign execution, automation, and optimization
- Ensured reliable communication between front-end and back-end through well-structured RESTful APIs
- Collaborated with front-end to deliver responsive and user-friendly interfaces using React and TypeScript
- Containerized services using Docker, enabling consistent development and deployment environments

Tech Stack: Python (FastAPI), PostgreSQL, AWS S3, React, TypeScript, Docker

2. Marketing & Campaign Management Platform (SPR Richards / M2)

Duration: Nov 2022 - Sep 2024

Role: Full Stack Developer

Description: Unified marketing platform developed for managing email campaigns, digital flyers, and print catalog orders. The system provides a centralized interface for marketing operations, enabling users to create, manage, and track campaign-related activities through a consistent and responsive UI.

Responsibilities:

- Developed responsive front-end application using React and Material UI (MUI), ensuring consistent UI/UX across the platform
- Implemented light and dark mode functionality with custom theme configuration and scalable design system support
- Built reusable UI components, improving maintainability, reducing duplication, and ensuring design consistency across modules
- Designed and implemented “Order Summary” drawer component, integrating it into existing user flows and improving usability
- Improved overall UX flows by restructuring interface interactions and simplifying complex navigation paths
- Refactored and modernized legacy codebase, improving maintainability, readability, and long-term scalability
- Ensured full cross-device responsiveness, optimizing layouts for desktop, tablet, and mobile views
- Worked on improving UI performance and rendering efficiency through component optimization
- Collaborated with back-end and design teams to align implementation with business requirements and design specifications
- Maintained code quality through consistent refactoring and adherence to project structure standards

Tech Stack: React, TypeScript, Material UI (MUI), Node.js

LANGUAGES

- English - Intermediate / Upper-Intermediate
- Ukrainian - Native