

Summary of Qualifications	<p>Full-Stack / AI-ML Engineer with 5.5 years of experience building scalable SaaS platforms and AI-driven applications. Skilled in backend and frontend development using Python and JavaScript/TypeScript, with hands-on expertise in LLM integrations, real-time systems, and cloud-based architectures.</p> <p>Experienced in developing AI-powered products, including voice assistants, medical ML systems, and fintech platforms. Strong focus on performance, system design, and delivering production-ready solutions using modern frameworks, Docker, and cloud platforms.</p>
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Skills	<p>Programming Languages/Technologies</p> <ul style="list-style-type: none"> ▪ Python ▪ JavaScript / TypeScript ▪ C# ▪ C++ ▪ SQL ▪ XML / JSON / YAML ▪ Asynchronous Programming ▪ SaaS / RIA Development ▪ Technical Documentation / Architecture Design ▪ Fast Assembler / gnu Assembler ▪ Reverse Engineering ▪ CISCO ▪ Linux Driver Development <p>Developer Productivity AI Tools</p> <ul style="list-style-type: none"> ▪ ChatGPT ▪ Claude Code ▪ Gemini ▪ Copilot ▪ Antigravity <p>AI / Integrations</p> <ul style="list-style-type: none"> ▪ OpenAI API (Realtime, LLMs) ▪ Speech-to-Text / Text-to-Speech integrations ▪ AI/ML API integrations <p>RDBMS</p> <ul style="list-style-type: none"> ▪ MySQL ▪ PostgreSQL <p>NoSQL</p> <ul style="list-style-type: none"> ▪ Redis ▪ MongoDB <p>CI/CD</p> <ul style="list-style-type: none"> ▪ GitHub CI/CD ▪ GitHub Actions 	<p>Frameworks/Libraries</p> <ul style="list-style-type: none"> ▪ FastAPI ▪ Django / DRF ▪ Node.js / Nest.js ▪ React ▪ Next.js ▪ Redux ▪ Zod ▪ SQLAlchemy ▪ Alembic ▪ Hugging Face Transformers ▪ ElevenLabs ▪ Numpy / Pandas ▪ Aiohttp ▪ Requests ▪ Selenium ▪ BeautifulSoup <p>Cloud Providers</p> <ul style="list-style-type: none"> ▪ AWS ▪ Azure ▪ Heroku ▪ GCP ▪ Firebase <p>Virtualization Tools</p> <ul style="list-style-type: none"> ▪ Docker ▪ Docker Compose <p>Methodologies</p> <ul style="list-style-type: none"> ▪ Agile / Scrum / Kanban ▪ Clean Architecture / Domain-Driven Design (DDD) <p>Testing Tools</p> <ul style="list-style-type: none"> ▪ Postman ▪ Pytest ▪ unittest, Mock ▪ Jest
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Experience

Project Description:

A fintech platform enabling users to create accounts, manage shared balances, and issue and control payment cards.

Domains:

FinTech | SaaS

Involvement Duration:

1 year

Project Role:

Full-Stack Developer

Responsibilities:

- Led a full-scale refactor of the backend, migrating from synchronous to asynchronous architecture to improve performance and scalability
- Replaced legacy “spaghetti code” with clean, modular architecture following modern best practices
- Designed and implemented new features, while maintaining and fixing existing functionality in a production environment
- Introduced a subscription-based model, integrating payments and billing workflows using Stripe
- Developed and maintained backend services using Python (FastAPI) with async support
- Built and supported mobile client features using React Native and Redux Toolkit
- Managed data storage and optimization in PostgreSQL
- Integrated Firebase for authentication and real-time capabilities
- Deployed and maintained infrastructure on Google Cloud Platform (GCP) using Docker
- Improved overall system reliability, performance, and developer experience

Project Team Size:

6-8 team members

Tools & Technologies:

Python, FastAPI, PostgreSQL, Stripe, Firebase, Google Cloud Platform (GCP), Docker, React Native, Redux Toolkit.

Real-time AI Voice Assistant Platform

Project Description:

A real-time voice assistant system that enables interactive phone conversations powered by AI. The platform processes live audio streams, generates responses using LLMs, and delivers them back to users with minimal latency.

Domains:

Conversational AI | Sales Automation | Voice AI

Involvement Duration:

0.5 years

Project Role:

Backend / AI Engineer

Responsibilities:

- Designed and implemented a backend service for real-time voice interaction using FastAPI
- Integrated OpenAI Realtime API for low-latency speech-to-speech AI responses
- Built telephony integration using Twilio and Asterisk for handling inbound/outbound calls
- Managed real-time audio streaming and event-driven communication
- Containerized the system using Docker for scalable deployment
- Optimized latency and reliability of voice communication pipeline

Project Team Size:

5-8 team members

Tools & Technologies:

Python, FastAPI, OpenAI Realtime API, Twilio, Asterisk, Docker, WebSockets, Redis.

AI-Powered Medical Imaging Platform

Project Description:

A medical AI/ML platform for analyzing tissue slice images to support clinical research and diagnostics.

Domains:

Healthcare Technology | Digital Pathology | Medical Imaging

Involvement Duration:

1 year

Project Role:

Full-Stack Developer

Responsibilities:

- Built and maintained both frontend and backend components of the system
- Implemented a responsive frontend using React (TypeScript), Redux, and Zod for state management and data validation
- Designed and developed backend services with FastAPI, including RESTful APIs for image processing workflows
- Integrated external AI/ML APIs for automated analysis of medical imaging data
- Designed and optimized data pipelines for handling and processing large volumes of image data
- Managed database architecture and queries using PostgreSQL
- Utilized Firebase for authentication and real-time features
- Deployed and maintained cloud infrastructure using Google Cloud Platform (GCP)
- Collaborated on improving system performance, scalability, and reliability

Project Team Size: 6-8 team members

Tools & Technologies: React, TypeScript, Redux, Zod, FastAPI, PostgreSQL, Firebase, Docker, GCP.

Enterprise Medical System (Legacy Modernization)

Project Description: A large-scale medical platform with a legacy codebase, focusing on refactoring and stabilization.

Domains: Healthcare | Clinical Trials | CRM

Involvement Duration: 0.5 years

Project Role: Full-Stack Developer

Responsibilities:

- Improved code quality and maintainability by restructuring legacy modules and reducing technical debt across frontend and backend
- Fixed critical bugs and performance issues in both client-side and server-side components
- Developed and maintained backend services using Python (Django), enhancing API reliability and scalability
- Contributed to frontend development using JavaScript, modernizing parts of the UI and improving user experience.
- Managed deployments and environment configurations using AWS Elastic Beanstalk
- Monitored and troubleshooted production issues, ensuring high system availability
- Collaborated with cross-functional teams to safely introduce improvements into a complex, production-critical system

Project Team Size: 6-10 team members

Tools & Technologies: Python, Django, JavaScript, PostgreSQL, AWS (Elastic Beanstalk).

Sports Exercise Metrics Tracker

Project Description: A full-stack web application for tracking workout metrics, managing exercises, and recording completed training sessions.

Domains: Fitness | SportTech

Involvement Duration: 0.5 years

Project Role: Full-Stack Developer

Responsibilities:

- Implemented seamless data synchronization via a Telegram bot, enabling users to log and access workouts in real time
- Built advanced analytics features, including statistics dashboards and graph-based recommendations for optimal weights and repetitions
- Designed a scalable frontend architecture using Next.js, React-Bootstrap, and Feature-Sliced Design (FSD) methodology
- Developed backend services with NestJS in a microservices architecture, ensuring modularity and scalability
- Implemented secure authentication and authorization using OAuth

- Designed and optimized database structures in PostgreSQL for efficient data handling
- Containerized services with Docker to streamline development and deployment processes
- Significantly improved application performance by optimizing both frontend and backend code, reducing load times
- Applied responsive design principles to ensure consistent UX across mobile, tablet, and desktop devices
- Built well-structured and secure APIs for third-party integrations, extending platform functionality without compromising performance

Project Team Size: 4 team members

Tools & Technologies: Next.js, React-Bootstrap, FSD, NestJS, PostgreSQL, Docker, Microservices, OAuth.

HR Management Application

Project Description: A comprehensive HR management platform with role-based access control (RBAC) and fine-grained permissions for employee management.

Domains: Human Resources | Enterprise Software

Involvement Duration: 0.5 years

Project Role: Full-Stack Developer

Responsibilities:

- Implemented secure authentication and authorization using OAuth
- Built frontend using React, TypeScript, and Redux Toolkit, providing intuitive interfaces for employee management, leave requests, remote work approvals, and more
- Developed backend services with FastAPI, following Clean Architecture and Domain-Driven Design (DDD) principles to ensure maintainability and scalability
- Integrated with Google Workspace for calendar, email, and team management synchronization
- Designed and implemented a bot using Aiogram and Telethon, allowing creation of support chats that communicate with clients on behalf of employees
- Enabled real-time management of employees and requests directly through both the web application and Telegram bot
- Managed data storage and optimized queries in PostgreSQL for high performance under concurrent usage
- Containerized application using Docker for easy deployment and consistent environments
- Ensured a modular, scalable system capable of extending features while maintaining code quality and reliability

Project Team Size: 5 team members

Tools & Technologies: React, TypeScript, Redux Toolkit, FastAPI, PostgreSQL, Docker, Google Workspace, Aiogram, Telethon, Clean Architecture, DDD, OAuth.

Diamond Marketplace Platform

Project Description: A marketplace platform for buying and selling diamonds via Telegram and Mini-App interfaces.

Domains: eCommerce | FinTech

Involvement Duration: 1 year

Project Role: Backend / Telegram Developer

Responsibilities:

- Focused on backend development using FastAPI, ensuring high-performance and secure handling of listings, transactions, and user data
- Managed and optimized PostgreSQL database schemas and queries to support high-volume trading operations

<p>Project Team Size: 3 team members</p> <p>Tools & Technologies: FastAPI, PostgreSQL, Telegram, Mini-App, Lovable frontend, Payment Systems, Subscriptions</p>	<ul style="list-style-type: none"> ▪ Integrated payment processing systems and implemented subscription-based models for premium services ▪ Supported an existing Lovable -based frontend, ensuring smooth data flow and feature compatibility ▪ Implemented APIs for seamless communication between Telegram bot, Mini-App, and backend services ▪ Monitored system performance, fixed bugs, and ensured reliability of production services ▪ Applied best practices for code quality, scalability, and maintainability in a high-demand fintech environment
<p>Project Description: A medical application that leverages a transformer-based model to classify diseases by medical specialty and suggest preliminary treatment actions. These suggestions are subsequently reviewed and validated by certified doctors before being integrated into the medical workflow.</p> <p>Domains: Healthcare</p> <p>Involvement Duration: 0.5 years</p> <p>Project Role: Full-Stack Developer / ML Engineer / Team Lead</p> <p>Responsibilities:</p> <ul style="list-style-type: none"> ▪ Fine-tuned a transformer model on a domain-specific medical dataset to improve classification accuracy and the relevance of generated recommendations ▪ Built a backend service using NestJS, PostgreSQL, and Redis, implementing OAuth-based authentication, chat history storage, and AI-powered prediction endpoints ▪ Implemented the AI component in Python using Hugging Face Transformers, and containerized the entire system with Docker for scalable deployment ▪ Ensured system reliability by writing comprehensive tests and maintaining high-quality technical documentation ▪ Collaborated closely with data scientists and medical professionals, with a strong focus on security and healthcare data privacy compliance ▪ Led the development team by coordinating tasks, conducting code reviews, mentoring engineers, and ensuring timely delivery of project milestones <p>Project Team Size: 3-4 team members</p> <p>Tools & Technologies: Python, Hugging Face Transformers, PyTorch, NestJS, PostgreSQL, Redis, OAuth, Docker, REST APIs.</p>	<p>Medical AI Application (Transformer-based)</p>

<p>Certificates</p>	<p>PCEP™ – Certified Entry-Level Python Programmer Cisco</p>	
	<p>Introduction to Networks Cisco</p>	
	<p>Switching, Routing, and Wireless Essentials Cisco</p>	
	<p>IT Essentials: PC Hardware and Software Cisco</p>	

Partner: NDG Linux Unhatched
Cisco



Education

Bachelor's degree
Zaporizhzhia National University, Zaporizhzhia
Software Engineering

Languages

English: Advanced
German: Advanced
Polish: Intermediate
Ukrainian: Native
Russian: Native