

# Vitalii Shynkaruk Senior Full Stack Python Engineer

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## Summary

Senior Full Stack Python Engineer with 10 years of experience and strong Python backend expertise, designing, developing, and scaling high-performance systems using Django, Flask, FastAPI, and RESTful APIs. Experienced in full-stack development with Node.js, React, Next.js, and Vue, delivering production-ready web and mobile applications. Skilled in cloud-based architectures, SaaS features, AI/LLM integrations, automation, DevOps, Docker, and CI/CD pipelines, building reliable, maintainable, and scalable solutions. Collaborative team player delivering high-quality results in fast-paced, client-focused environments.

## Work Experience

### Senior Full Stack & AI Developer

01/2026 – Present

*Upwork*

Currently contributing to full-stack and AI integration projects, focusing on backend development, automation workflows, and scalable system design; collaborating with clients to deliver production-ready solutions. Tech Focus: Python, Node.js, React, Next.js, Django, Flask, FastAPI, n8n, DevOps, AWS

### Full Stack AI Engineer

05/2021 – 12/2025

*Volnexus Labs*

- Lead full-stack development for enterprise platforms, focusing on AI, automation, and backend scalability, improving efficiency by 35%
- Built frontend with React/Next.js and backend with Python, Node.js, and .NET Core, integrating AI chatbots reducing manual tasks by 45%
- Developed AI-assisted modules using LLMs/vector search, increasing user engagement by 30%
- Built automation pipelines with n8n, cutting operational overhead by 50%Optimized SQL/NoSQL databases and cloud infrastructure, improving response times by 40%
- Mentored junior engineers and collaborated with teams for faster delivery

Tech Focus: Python, Node.js, .NET Core, React, Next.js, FastAPI, LLMs, n8n, RAG Pipelines, DevOps, AWS, Docker

### Full Stack Python Engineer | Backend Developer

08/2018 – 04/2021

*Kryonode Systems*

- Developed a cloud-native, microservices-based backend system using Python and FastAPI, improving API response times by 40% and achieving 99.99% uptime for a fintech platform serving 5M daily users.
- Adopted AI-driven code analysis tools, reducing bug detection time by 60% and decreasing post-release issues by 25%.
- Contributed to implementing quantum-resistant cryptography protocols, enhancing data security and mentoring junior developers in advanced Python techniques.

- Optimized data processing pipelines with Python and Apache Spark, reducing big data processing time by 70% and enabling real-time analytics for an e-commerce platform handling 10TB of daily transactions.
- Assisted in designing a scalable event-driven architecture using Python and Apache Kafka, increasing system throughput by 300% and reducing infrastructure costs by 40%.
- Collaborated on a machine learning-powered recommendation engine, increasing customer engagement by 35% and driving a 20% revenue boost.
- Built a high-performance RESTful API with Django and PostgreSQL, supporting 10,000 concurrent users with 99.9% uptime for a SaaS application.
- Implemented automated testing, CI/CD pipelines, and Docker-based deployments, reducing deployment time by 80% and achieving 95% code coverage.
- Developed a custom Python library for data validation and sanitization, reducing data errors by 70% and improving system reliability for a healthcare data management platform.

Key Skills & Technologies: Python, Django, FastAPI, RESTful APIs, PostgreSQL, Apache Spark, Apache Kafka, Microservices, Event-Driven Architecture, Machine Learning, AI-driven tools, Cloud-Native Development, Docker, CI/CD, SaaS, Data Security

### Python | Node | Full Stack Developer

12/2015 – 04/2018

*FreelancerHunt*

- Delivered backend and full-stack solutions, focusing on automation and workflow efficiency, improving client operations by 20-50%
- Built APIs, scripts, and web apps using Python and Node.js. Designed automation pipelines for data processing

Tech Focus: Python, Node.js, Automation, REST APIS, SQL/NoSQL Databases, n8n

## Education

### Bachelor of Science (B.S.) in Software Engineering

*Lutsk National Technical University (LNTU)*

2013 – 2017

## Languages

- English
- Ukraine

## Technical Skills

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### Frontend

React, Next.js, Vue.js, Node.js, Express.js, Javascript

### AI & Automation

- AI/ML integrations, LLMs
- Automation tools: n8n, Airflow
- Data pipelines, ETL processes, AI-driven code analysis

### Databases

- SQL: PostgreSQL, MySQL, SQL Server
- NoSQL: MongoDB, DynamoDB, Redis
- Big data processing (Pandas, NumPy, Apache Spark)

### Backend (Senior)

- Python, Django, FastAPI
- Node.js, PHP
- RESTful APIs, Microservices, Event-Driven Architecture (Kafka, RabbitMQ)
- High-performance backend systems, asynchronous workflows

### CMS & Platforms

CMS Development WordPress Strapi

### DevOps & Cloud

- AWS: Lambda, S3, RDS, SNS, SQS, Step Functions, CloudFormation
- Docker, Kubernetes, CI/CD pipelines
- Cloud-native architecture, SaaS platforms, performance optimization

## Portfolio

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<https://vitalii-portfolio.vercel.app/> ↗