

# Daniel Nwosu

## SOFTWARE ENGINEER

### SUMMARY

Throughout my life, I've had a fascination for learning and understanding the inner workings of various devices and systems. During my childhood, I was intrigued by reading programming books on Delphi and C#. While playing video games as a teenager, my friends and I wanted our own in-game server which we either had to hire some to build for us or do it ourselves. I took on the challenge of learning the required skills and built it myself. Subsequently, I created numerous mods and plugins for various games and continued to delve deeper into the world of programming. I started my professional programming career working with Python. I look forward to continuing my software engineering journey in the Python and Node ecosystems and advancing my architecture, development, and technical leadership skills while staying up to date with the newest technologies.

### EXPERIENCE

#### Lampa Software

Software Engineer | September 2023 - Present

- Implemented high traffic APIs.
- Enhanced and updated current features.

#### Five Systems Development

Software Engineer | August 2022 - September 2023

- Designed and developed high traffic REST API.
- Creating code solutions for sales businesses.
- Designing and creating a backend for a global mobile application.

### Side projects

- PyCommon - a library with common tools for Python developers.
- AI Dashboard - REST API protected by OAuth used to make cryptocurrency price predictions.
- FitCore - The app for tracking fitness results.

### LIBRARY

Books I have read:

- "Serious Python ("Black Belt Advice on Deployment, Scalability, Testing) - Julien Danjou
- "Gang of four" (Design Patterns: Elements of Reusable Object-Oriented Software)
- "Grokking Algorithms" - Aditya Y. Bhargava
- "Introduction to Algorithms" - Thomas H. Cormen
- "PostgreSQL Basics" - E.P. Morganov
- "Programming introduction (C++)" (1,2,3 volumes) - A.V. Stoliarov

### Contacts:

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### Profile:

Born date: 04/24/1996

City: Ukraine, Vinnitsia

### Technologies stack

#### Common languages & frameworks:

- Python3
- FastAPI
- SQLAlchemy
- Pydantic
- Flask
- Django, Django Rest Framework
- Linux
- Redis
- MongoDB
- Docker
- PostgreSQL, MySQL
- AWS
- Uvicorn, Gunicorn, Nginx
- Git (GitHub, GitLab, Bitbucket)
- IaC (AWS CDK, Terraform)
- GitActions, CircleCI

#### Familiar with technologies:

- C, C++
- HTML5, CSS
- JavaScript, TypeScript
- Node.js, Express, Vue 3
- Localstack
- Stripe, LiqPay, Fondy

#### Spoken languages

- English - Advanced (C1)
- Ukrainian - Native
- Russian - Native

#### Hobbies:

I enjoy spending time with my friends doing various activities, such as playing video games, hiking, camping, or participating in trivia sections. I like to try to learn something new. These activities are refreshing and help clear my mind and stay healthy. Also, I'm learning the ropes with guitar playing.

## PROJECTS

### Must Have Tattoo

Solution for business automatization with client interaction, developed a tool that expands the business audience.

#### Tech stack:

Python, Flask, FastAPI, SQLAlchemy, Pydantic, Railway, Jinja2, Angular, Postgres, Docker, Gunicorn, Nginx, PyTelegramBotAPI, Heroku.

August 2022 – March 2023

Software Engineer

- Designed the database schemas to meet performance requirements.
- Configured CI/CD and inter-service communication.
- Configured WSGI and ASGI web servers.
- Designed project architecture.
- Implemented user management system.
- Implemented OAuth signup and login for multiple platforms.
- Designed and implemented interface for third-party application integrations.
- Implemented payment systems, such as LiqPay, Stripe, Fondy.

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### VOLT

Solution for monitoring power infrastructure in real time.

#### Tech stack:

Python, FastAPI, SQLAlchemy, AWS (RDS, AR), PostgreSQL, Docker, Nginx, Alembic, Firebase, Twilio, BS4.

December 2022 – February 2023

Software Engineer

- Designed and implemented high traffic REST API.
- Implemented scalable web crawlers for collecting data in real time.
- Designed the database schemas.
- Implemented user management system.
- Implemented OAuth signup and login for multiple platforms.

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### Under NDA

Solution for sales and company management.

#### Tech stack:

Python, FastAPI, Django, SQLAlchemy, Scrapy, AWS(EC2), PostgreSQL, Docker, Nginx, Alembic, Celery, RabbitMQ, BS4.

September 2022 – March 2023

Back-End developer

- Enhanced and updated current project modules.
- Implemented API (Swagger, DRF) and created crawlers.
- Established an integration with sales service.
- Created tools and features for stakeholders within the company.
- Supported the Data Science team by providing development infrastructure, other tools, and data necessary for analysis.

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### Under NDA

Solution for health care monitoring.

#### Tech stack:

Python, Django, DRF, SQLAlchemy, PostgreSQL, Docker, Celery, Redis, Nameko.

September 2023 – November 2023

Software engineer

- Enhanced and updated current project modules.
- Resolved bugs and upgraded the code base to incorporate the latest language features.

## **Under NDA**

Solution for communication between therapists and patients.

### **Tech stack:**

Python, Node.js, Django, DRF, MySQL, Vue, Docker, WebRTC, RabbitMQ, Express, Redis, Grunt, Celery, Firebase.

September 2023 – Present

Full-Stack engineer

- Configured WSGI and ASGI web servers.
- Implemented a WebRTC-based web chat with multimedia and screen-sharing functionalities.
- Designed and created project architecture and structure.
- Implemented OAuth signup and login for multiple platforms.
- Designed and implemented interface for third-party application integrations.

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## **Newstream AI (OneScrin)**

Solution for monitoring athletes' and team workout assessment progression.

### **Tech stack:**

Python, Django, DRF, Gunicorn, Docker, Postgres, Docker, Celery, Gunicorn, AWS, FastAPI, OpenAI.

October 2023 – Present

Software Engineer

- Implemented a user management system.
- Enhanced and improved report generation and rendering module.
- Implemented OAuth signup and login for multiple platforms.
- Enhanced the runtime efficiency of the code and adjusted a cloud infrastructure for it.
- Implemented utility data preprocessing modules for the ML model.
- Reworked report service, integrated LLM services, resolved legacy issues, and restructured the code architecture.

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## **Genomely Blast**

Solution for bridging genomic data and real-world applications.

### **Tech stack:**

Python, AWS, DynamoDB, CDK, Vue3, Tailwind, Vite, Vite, AWS Powertools, Localstack.

June 2024 – July 2024

Software Engineer

- Implemented front-end modals and screens.
- Implemented authentication providers.
- Implemented database layer service.
- Integrated basic local alignment search tool in the system.
- Configured cross-service communication layer.

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## **GAIT**

Solution for medical clinic management and therapy tracking.

### **Tech stack:**

Python, AWS, Django, Terraform, Celery, CVAT, Pandas, FastAPI, Postgres.

March 2025 – June 2025

Software Engineer

- Designed and implemented database architecture.
- Scaffold project structure and wired-up communication layer with SDK.
- Configured and deployed the infrastructure.
- Pre-processed data for the ML pipelines.

## **HSA Loophole ([ClaimStash](#))**

Solution for managing the US healthcare expenses smarter.

### **Tech stack:**

Python, Postgres, Docker, AWS CDK, Celery, Railway.

March 2025 – Present

Software engineer

- Created and implemented database and back-end architecture.
  - Created interfaces for connecting multiple third-party integrations.
  - Implemented the CRM system.
  - Implemented infrastructure and CI/CD pipeline.
  - Estimated and helped to pick the best pricing plan for the startup.
  - Implemented all the back-end parts.
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