

## AONDOVER, PASCAL ORYIMAN

[Portfolio](#) | [Website](#)

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## PROFESSIONAL SUMMARY

Versatile Software Engineer and Full-Stack Web Developer with 5+ years of experience in designing, building, and deploying scalable, end-to-end applications. Specializing in Python-based backends with FastAPI, Web and modern JavaScript frontends (React, Vanilla JS), with a proven track record of leading development cycles from concept to production. Possesses a strong foundation in AI/ML, enabling the integration of intelligent features into robust software solutions. A proactive problem-solver and collaborative team player, passionate about building high-performance, user-centric products.

## TECHNICAL SKILLS

- **Languages:** Python, JavaScript, HTML5/CSS3, SQL, C#, C++, Java
- **Backend Frameworks:** FastAPI, Flask, Python (general)
- **Frontend Frameworks & Libraries:** Vanilla JavaScript (ES6+), React, Flutter, HTML, CSS, CustomTkinter/PyQT
- **Databases & Storage:** PostgreSQL (PostGIS), SQLite, Firebase Cloud Storage, SQL
- **DevOps & Tools:** Docker, Kubernetes, Git, GitHub, Linux Command Line, Azure
- **APIs & Protocols:** RESTful APIs, PayStack API, Paypal API, Stripe API, WebRTC, Websockets, JWT

## KEY PROJECTS

### IntelliCoach Pro – AI-Powered Career Coaching Web App | [GitHub Link](#)

- Developed a full-stack conversational AI application using a **FastAPI** backend to deliver personalized career advice, learning resources, and interview preparation tips.
- Implemented a core skill-gap analysis feature to compare a user's current skills against requirements for their target career, providing targeted learning suggestions.
- Engineered a stateful user experience by implementing session management using browser cookies and a **SQLite** backend to persist chat history and user profiles.
- Built the responsive, chat-based interface from scratch using Vanilla JavaScript to handle asynchronous API calls, real-time DOM manipulation, and render Markdown responses for enhanced readability.
- Tech Stack: Python, FastAPI, Vanilla JavaScript, SQLite, HTML5, CSS3.

### IntelliWeb Engine – Full-Stack E-Commerce & Content Platform | [GitHub Link](#)

- Architected a monolithic, full-stack web application serving as the complete backend and frontend for a company website, handling user management, content, and sales.
- Integrated the **Paystack API**, **PayPal API**, **Stripe API** for secure e-commerce and subscription management and the Firebase Admin SDK for cloud-based file storage and retrieval.
- Built the entire application with **FastAPI**, implementing JWT-based user authentication, a **SQLite** database, and server-side rendering of dynamic HTML templates.
- Tech Stack: Python, FastAPI, Stripe API, Firebase, JWT, SQLite, Server-Side Rendered HTML, CSS, JS.

### PredictoPro – Full-Stack Financial Analysis Platform | [GitHub Link](#)

- Architected and developed a full-stack web application for real-time stock and crypto-currency price tracking, portfolio management, and predictive analysis.
- Engineered the backend using **Python** and **FastAPI** to serve real-time data, manage user authentication, and run machine learning prediction models.
- Designed a dynamic and responsive frontend using **HTML**, **CSS**, and **JavaScript**, providing users with interactive charts and data visualizations.
- **Tech Stack:** Python, FastAPI, Scikit-learn, Pandas, JavaScript, HTML/CSS.

### IntelliMeet-X – WebRTC Video Conferencing Application | [GitHub Link](#)

- Built a feature-rich, browser-based video conferencing platform from the ground up, enabling real-time, multi-user video and audio communication.
- Implemented a robust signaling server using **Python** and **FastAPI** with **Websockets** to manage P2P connections via **WebRTC**.
- Developed core features including screen sharing, chat functionality, and participant management using modern web technologies.
- **Tech Stack:** Python, FastAPI, WebRTC, Websockets, JavaScript, HTML/CSS.

#### **GenMaster AI Studio – Full-Stack Desktop AI Application** | [GitHub Link](#)

- Developed a complete, standalone desktop application for AI-powered image generation, featuring a modern UI and a powerful local backend./
- Created a multithreaded **FastAPI** backend to handle intensive AI model processing without freezing the user interface.
- Designed an intuitive and responsive GUI using **CustomTkinter**, providing users with tools for prompt engineering, image management, and model selection.
- **Tech Stack:** Python, FastAPI, CustomTkinter, AI/ML (Image Generation Models), Docker.

#### **IntelliResume Pro – Resume Builder Application** | [GitHub Link](#)

- Built a responsive, client-side resume builder application from scratch using only **Vanilla JavaScript**, **HTML5**, and **CSS3**, showcasing strong core web development skills.
- Implemented all application logic, including template switching and real-time previews, and managed state and data persistence using the browser's Local Storage API.
- Tech Stack: Vanilla JavaScript, HTML5, CSS3, Local Storage API.

## **WORK EXPERIENCE**

### **Software Engineer**

Slogan Technologies (Self-employed) | Jan 2019 to Present

- Architected and led the development of scalable AI and software projects, including African Deity Kombat, a 3D game built with C#, C++, and the Unity Engine.
- Designed and deployed advanced Python applications for robotics and cybersecurity, utilizing FastAPI to create high-performance RESTful APIs.
- Engineered complex data processing workflows by integrating Rasterio and Geopandas with PostGIS, automating geospatial data analysis.
- Mentored team members in software development best practices, improving project efficiency by 40%.

### **Website Designer & Engineer**

Royal Heritage Group | Jan 2023 to Dec 2023

- Developed and maintained user-friendly web interfaces using HTML, CSS, and JavaScript, resulting in a 90% increase in website traffic through improved UX.
- Integrated SQL databases with a PHP backend to optimize data handling and dynamic content delivery, improving data retrieval speeds by 20%.

## **EDUCATION & CERTIFICATIONS**

- **M.Sc Automation & Mechatronics (Prospective)** – Saint Petersburg Electrotechnical University / Sep. 2025 – Sep 2027
- **B. Sc Physics (Hons)** - Joseph Sarwuan Tarka University (Formerly University of Agriculture) / Jan. 2015 – Sep 2019
- Artificial Intelligence & Data Fundamentals IBM [\[view\]](#) | [\[view\]](#)
- Python Development Essentials MTF Institute [\[view\]](#)

## **PUBLICATIONS**

- Advancing Theoretical Foundations of Artificial Intelligence through Integrated Intelligent Systems by **Scienxt Journal of Artificial Intelligence and Machine Learning** (SJAML)- Vol 2 | Issue 3 | 2024 | pp 1-32 [\[view\]](#)