

Burtea

Ionut-Marius

Python Developer

Available for relocation

I am looking for a full time position

WORK EXPERIENCE

Junior Python Developer

09.2023 - 10.2024

Nenos Software

- Boosted invoice recognition accuracy by 25% through the development and implementation of AI-driven algorithms for data extraction from tables, improving financial document processing efficiency for clients.
- Reduced database query times by 40% by optimizing data pipelines, leading to a more responsive system in the "Chat with Own Data" application, enhancing user experience during site crawling and document integration.
- Migrated databases from Azure Tables to PostgreSQL for a duplicate file management system, decreasing storage costs by 20% and improving data retrieval speeds by 30%, ensuring seamless application performance.
- Achieved high accuracy in retraining recognition models using TensorFlow, Keras, Transformers and PyTorch, reducing manual document processing time by 60%, which streamlined internal workflows and improved overall data handling efficiency.
- Implemented conversational chatbots on Google Cloud Platform (GCP) using Dialogflow CX and Amazon for natural language chatbot with custom data sources, allowing dynamic responses based on user queries. Additionally, I participated in the development of other RAG applications based on various LLMs.
- Design, develop, and maintain Python-based applications and systems, ensuring clean, efficient, and scalable code, and implement SaaS functionality to enhance product offerings.
- Actively resolve development issues, contributing to the resolution of approximately 50% of the challenges encountered during the development process.
- Collaborated with cross-functional teams, including product managers and UI/UX designers, to ensure seamless integration of features.
- Designed and integrated RESTful APIs to enhance interoperability between microservices and third-party platforms, streamlining data exchanges and improving system extensibility.

Languages and approaches:

- Python, JavaScript, HTML, CSS

Libraries and frameworks:

- Mongo-engine, SQLAlchemy, Pandas, Plotly, Matplotlib, Poetry, Pydantic, FastAPI, Flask, Dash, Tensorflow, Keras, Haystack, LangChain, Apache Airflow, Chainlit, MistralAI, Llama, Azure, NumPy, MIFlow, Hugging Face, Dramatiq, RabbitMQ

Tools:

- Linux, Postman, JIRA, GIT, Docker, GitLab, Docker, GCP, AWS, Azure, Asana

Technical Trainer

2021 - 2023

Logiscool Galati

- Delivered 5 programming courses weekly, instructing over 50 students across different languages (Java, Python, and JavaScript), while maintaining a 90% student satisfaction rate.
- Collaborated with colleagues to revamp 17 lessons per semester, resulting in a 20% increase in student retention and comprehension, as measured by end-of-term assessments.
- Guided students through hands-on coding exercises, leading to a 30% improvement in final project completion rates and a noticeable increase in coding proficiency across all age groups.
- By introducing real-world coding examples and interactive lessons, I contributed to a 15% growth in student enrollment for my programming classes over two semesters.

CONTACTS



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ABOUT ME

A passionate Junior Python Developer with hands-on experience in AI, Machine Learning, and software development, skilled in Python, FastAPI, Docker, MongoDB, and PostgreSQL. Adept at implementing algorithms, optimizing databases, and developing innovative solutions for complex projects, including invoice recognition, chat applications, and file management systems. With a background in technical training and team collaboration, I thrive in dynamic environments, continuously learning new technologies and driving project success, and I am seeking a senior-level role to lead projects and foster innovation.

EDUCATION

Dunarea de Jos

**Computer Science Faculty -
Graduated**

2020 - 2024

Panait Cerna

**Highschool, mathematics and
computer science specialization**

2016 - 2020

SKILLS

- Python | Java | HTML | JS | CSS
- OOP
- SQL | NOSQL
- Machine Learning
- Artificial Intelligence
- Computer Vision
- Basic Networking

- Conducted and completed 3 full test cycles per day across major titles like FIFA, Madden, and UFC, enhancing the testing throughput by 25% over a six-month period.
- Developed and maintained comprehensive test documentation, including checklists and test cases, ensuring thorough coverage and clarity in testing processes.
- Collaborated with developers in real-time, reducing critical bug resolution times by 15%, ensuring faster deployment of patches and updates for FIFA and Battlefield.
- Performed daily tests to ensure application stability, resulting in a 20% reduction in crashes and system failures during high-traffic gameplay periods.
- Expanded test scenarios for UFC and Battlefield, increasing test coverage by 30%, which led to early detection of critical performance bottlenecks.

Knowledge: Manual testing, Automatic testing, Mobile/PC testing
Tools: Jira, Asana, Selenium, Microsoft Office, Slack

PROJECTS

“Healthy”

This application is the culmination of my bachelor's thesis, focused on detecting Alzheimer's disease and pneumonia using machine learning techniques. The application leverages deep learning models developed and trained with TensorFlow and PyTorch, utilizing Python to implement the entire solution.

"Eye" - Application for blind people

iAn Android application I developed to assist visually impaired individuals by providing real-time object recognition through machine learning techniques. The app uses advanced computer vision algorithms to detect and identify objects in the user's environment, offering immediate audio feedback for enhanced navigation and interaction

Fire detection system

an application I developed on a Raspberry Pi, designed to detect fires using machine learning models trained with TensorFlow. The system leverages real-time image processing and computer vision techniques to identify fire hazards, providing a proactive solution for early fire detection.

“ShowYourTrueSelf”

An application I developed to combat deepfake content in both images and videos using a combination of machine learning techniques. Built with Java and Python, the application detects manipulated media by analyzing patterns and inconsistencies that are often present in deepfake creations.

COURSES

Nenos Academy - Full Stack Web Development

Within this academy, I had the opportunity to:

- Learn how a web application works and how it is created, both front-end and back-end.
- See how professionals work in real projects.
- Create my own projects with the acquired knowledge.
- Create 5 projects with the help of which to demonstrate the acquired capabilities.
- Work with NodeJS, ExpressJS, HTML, React, MySQL,, JS, CSS.

The Complete 2023 Web Development Bootcamp

Throughout this comprehensive course, I covered a massive amount of tools and technologies, including:

- HTML, CSS, Bootstrap, Javascript, Bash Command Line, Git, GitHub and Version Control, Node.js

100 Days of Code: The Complete Python Pro Bootcamp

Throughout this comprehensive course, I covered a massive amount of tools and technologies, including:

- Request, Pandas, NumPy, Matplotlib, Plotly, Scikit learn, Bash Command Line, Git, GitHub and Version Control, Flask, REST, APIs, Databases, SQL,

SELF-TAUGHT SKILLS

- CI/CD Pipelines in GitLab

REFERENCES

Logiscool Galati

Phone: 07700941131

LANGUAGES

- Romanian (Native)
- English B2
- German A1

SOFT SKILLS

- Communication skills
- People and interpersonal skills
- Self-awareness
- Self-learning
- Accountability
- Active listening
- Creativity
- Patience
- Collaboration