NIKOLAY PRIETO

Software Developer, ML Engineer

HARD SKILLS

Python	8+ yrs
Linux	5+ yrs
Open Source Tools	5+ yrs
Git	4+ yrs
ROS	2+ yrs
AWS	2+ yrs
Docker	1+ yr
JavaScript	0.5+ yr

CONTACT

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PERSONALITY TRAITS

Reserved	Energetic
Cautious	Curious
Spontaneous	Organized
Competitive	Friendly
Avid	Modest
Confident	Nervous

PROFILE

Machine Learning Engineer with a strong foundation in computer science, data science, and software development. Experienced in developing and deploying machine learning models for real-world applications. Skilled in data preprocessing, feature engineering, model selection, and evaluation. Proficient in various machine learning frameworks and libraries.

- Machine Learning Model Development
- Data Preprocessing and Feature Engineering
- Deep Learning and Neural Networks
- Natural Language Processing (NLP)
- Computer Vision
- Model Deployment and MLOps
- Python Programming
- Data Analysis and Visualization

Passionate about solving complex problems through data-driven solutions. Committed to staying up-to-date with the latest advancements in machine learning and AI. Looking for opportunities to apply my expertise in a dynamic and innovative environment.

WORK EXPERIENCE

Mvnifest Dec 2022 - Present
Machine Learning Engineer

Mvnifest is a third-party logistics company reinventing logistics management.

- Developed demand forecasting sales and planning tool as an ML engineer.
- Established ML model design and MLOps infrastructure.
- Implemented a serverless API for ML consumption.
- Utilized AWS technologies: S3, EC2, AWS Lambda, Neo4j, SageMaker, and API Gateway.

Mvnifest Oct 2021 - Dec 202
Backend Engineer

Designed and maintained serverless microservices for 3PL software.

EDUCATION

2014 - 2021

Ph.D in Mechatronics Engineering.
Universidad Nacional de Colombia
Doctoral researcher focused on the analysis of the ankle dynamics – via big data scrapping – and design of ankle-foot prostheses using advanced design methods as surrogate models and transient simulations of solid materials. *Awards:* Best GPA 2015-I during doctoral studies; full scholarship from MINCIENCIAS for PhD studies.

2011 - 2014

M.Sc. in Mechatronics Engineering
Universidad Militar Nueva Granada
I developed an ankle-foot prosthesis for Colombian runners with optimal combination of carbon-fiber laminates.

2004 - 2009

B.E. in Mechatronics.
Universidad de San Buenaventura

CERTIFICATES

MLOps

Coursera
2/4 courses

A program that spreads best practices in industrial Machine Learning operations.

Deep Learning

Neuromatch Academy
Completed

A foundational program that helps you understand the capabilities, challenges, and consequences of deep learning.

- Developed distributed systems on the cloud for a third-party logistics company.
- Used Python for custom tool development.
- Employed Neo4J (NoSQL) as the main database framework.
- Utilized AWS services, including Appsync, S3, EC2, Lambda, SES, SQS, SNS, SAM, and API Gateway.

Quantic Holdings, Inc Mar 2022 - Oct 202
Industry Expert: Machine Learning

Part-time job advising on and reviewing machine learning content for the software engineering content team.

- Worked with Scikit-learn, TensorFlow, Pytorch, and Colab.
- Provided valuable advice to extend the contract for one year.

Universidad de San Buenaventura Jul 2019 - Dec 202
Computational Robotics and AI

Associate professor of the undergraduate and graduate program in the mechatronics department. Focused on developing machines (robots) with computer vision and machine learning integration algorithms.

- Conducted research on non-linear control of ankle dynamic joint stiffness predicted via XGBoost algorithm.
- Developed an autonomous mobile robot for food services.
- Created a 3D printer with IoT integration.
- Worked on visual inertial navigation systems for aerial and ground autonomous vehicles.
- Utilized Python for custom tool development and various technologies, including Pandas, Scikit-learn, OpenCV, ROS, Gazebo, Jupyter, Google Colab, Keras, TensorFlow, Pytorch, CAD, and Ansys.

Indiana University Purdue University Indianapolis. Jun 2018 - Dec 201
Research Assistant

Design and construction of a catheter holder for medical applications through additive manufacturing and injection plastic processes.

- Simulation, prototyping and application of medical devices.
- Utilized LS-DYNA, python, Ansys, Matlab and shell.

Military Industry of Colombia Feb 09 - Sep 14
Research and Development Project Manager

Administrative and technical management of projects focused on research and technological development in the defense field. The duties involved were:

- Management of five (5) research projects with a total investment of two (2) million dollars.
- Monitoring transfer of the generated know-how to the implied factories.

Algorithms and Data Structures

Educative
Completed

Algorithmic techniques for solving various computational problems.

AWS Certified ML - Specialty 2020

A Cloud Guru
Completed

Skills to understand the complete AWS environment to perform ML projects.

- Technological assessment, industrial property, engineering design, and manufacturing of prototypes.
- Utilized Microsoft Project, Office 365, Inventor, Solidworks, Altium Designer, and Matlab.