JOSE ALEXANDER RÍOS TRESPALACIOS

TELECOMMUNICATION ENGINEER

My name is José Alexander Ríos Trespalacios, ethnically ambiguous, hedonistic and passionate about telecommunications. My academic training and experience are enriched with solid skills in various areas such as Machine learning, supervised learning, data analytics, cluster analysis, python development and other languages.

My knowledge ranges from programming languages like Python (largest used), Matlab, Java (OOP) and C++, to web software development tools like Flask and FastAPI in python, JSF, JSP, Servlets, PrimeFaces, HTML, and React js. My ability to work with automation and control systems (PLC) is complemented by knowledge of AWS, Kubernetes and planning of optical and wireless networks.

I have demonstrated my proficiency in various operating environments such as Linux (Ubuntu, Debian), Windows and MacOS. My prowess in the NetBeans IDE for Java, Tia Portal, and Visual Studio for C#, as well as tools like Microsoft Power BI, GNS3, MATLAB, Cabri, Cisco Packet Tracer, and Node js, reflect my versatility and adaptability in addressing technical challenges.



PROFESSIONAL EXPERIENCE

August 2023 -Present (Medellín, Colombia)

ACADEMIC MONITOR

UNIVERSIDAD DE MEDELLÍN

My primary focus is on phase object recovery using digital holographic microscopy, I spend a considerable amount of time working with digital holographic images and applying image processing techniques to enhance and analyze this data.

Phase Object Recovery with Digital Holographic Microscopy · Image Processing · Signal Processing · Optical Communication · Fiber Optic Networks · Voice and Data Convergence · Engineering · Project Management · Research · Digital Holographic Microscopy · Holograms



2016 - 2024 Medellín, Colombia

2015 Medellín, Colombia

2013 Cáceres, Colombia

Telecommunication Engineer

Universidad de Medellín

High School

Institución Educativa Héctor Abad Gómez

Basic and High School

Institución Educativa Monseñor Gerardo Patiño



CONTACT

 \boxtimes

jrios714@soyudemedellin.edu.co



+57 3108202461



Medellín, Colombia



18 de abril de 1999, Caucasia - Antioquia



linkedin.com/in/alexander-rios-trespalacios



github.com/ijrios



twitter.com/qui_erit

SKILLS

Python	\bullet \bullet \bullet \bullet
Machine Learning	• • • • •
Data Analysis	• • • • •
Supervised Learning	\bullet \bullet \bullet \bullet
Microsoft Power BI	\bullet \bullet \bullet \bullet
SQL	\bullet \bullet \bullet \bullet
AWS	• • • • •
Java	• • • • •

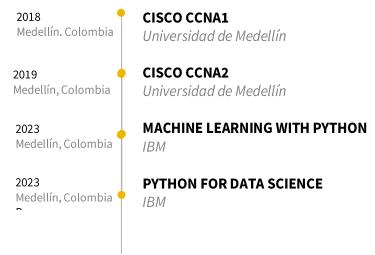
AWARDS

HACKATHON DATA SCIENCE (FIRST
PLACE: «CardioVigilant_AI» - Institución
Universitaria Pascual Bravo y Ruta N
(2023/09)





COURSES





FEATURED PROJECTS

github.com/ijrios

Leukemia Prediction App - Data science, Machine learning, Python, Predictive Modeling, HTML, CSS

CardioVigilant AI: Your Cardiovascular Health Guardian

- Data science, Machine learning, Python, Predictive Modeling, HTML, CSS

IoT Retrofit home automation control system for sliding windows (analog rain, temperature and light sensor) - Arduino and microPython - IoT, home automation and electronic (Python and C++)

Predict sales and Forum Repraesentativas Exchange Rate Praedictio - *Data science, Machine learning, Python*

Sensoriis web - Sensor data management platform - RestApi, React js, AWS, Python

Bibliopolium_app: Library (Reviews - Reservations) - *Java - OOP*

Systema IoT Retrofit Aquae Intelligentes Tank -*IoT, home automation and electronic (Python)*

REFERENCES

Jeeny Cuantindioy

Full-time Professor Phone: 300 2503586

E-mail: jenny.cuatindioy@udea.edu.co

Mario Alberto Luna

Full-time Professor Phone: 3002072673

E-mail: mluna@udem.edu.co

Felix Aviléz

Lawyer

Teléfono: 3012944917

E-mail: felixavilez17@gmail.com

Alexander Ríos

Professor

Phone: 3053051153

E-mail: alexanderriosariz@gmail.com

INTEREST

- Philosophy
- Statistics
- Literature
- Programming
- Sports