

Neill Rolando Giraldo-Corredor

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💻 **Software Engineer** | **Master Student in Artificial Intelligence**

I am a **Fullstack Software Engineer** with over six years of professional experience building scalable systems and user-friendly web applications. My core expertise lies in Python (FastAPI, Flask), TypeScript, React.js, and Node.js, with a proven track record of optimizing application performance and cloud architecture in production environments. Driven by a passion for emerging technologies and intelligent systems, I am currently pursuing an **M.Sc. in Artificial Intelligence**. I bridge the gap between robust software engineering and practical AI implementation. I have hands-on experience operating with high autonomy in fully remote environments, building clean API integrations, and handling data workflows. My background combines industry experience in automated deployments and backend systems with academic expertise in machine learning and deep learning architectures, including Language Transformers, Python-based ML pipelines, and advanced neural networks.



🇪🇸 **Spanish**: Native

🇬🇧 **English**: Fluent

🇩🇪 **German**: Proficient

Education:

🎓 **M.Sc. Artificial Intelligence (2025–)** **Universidad de los Andes (Online)**, Munich, Germany.

Theory: Advanced study of supervised, unsupervised, deep, and reinforcement learning methodologies.

ML Pipelines: Built, tested, and validated end-to-end data pipelines and model workflows using Python, Scikit-learn, Keras, and TensorFlow.

Architectures & Systems: Applied traditional algorithms alongside developing advanced Transformer-based models and reinforcement learning agents utilizing Hugging Face and PyTorch.

🎓 **B.Sc. Systems & Computing Engineering (2011–2018)** **Universidad Nacional de Colombia**, Bogotá, Colombia.

🎓 **Exchange Program in Computer Science (2015–2016)** **Technische Universität Darmstadt**, Germany

Professional Experience:

JobNinja | Full Stack Developer (Oct 2022 – Nov 2024, Munich, Germany)

- Tech Stack: **Next.js (React.js + TypeScript)**, **Python (Flask)**, **PostgreSQL**, **AWS**, **Heroku**.
- Architected and developed a brand-new **frontend application** for the core company website.
- Improved and maintained **core Python (Flask) backend systems** for performance and scalability.
- Optimised **Core Web Vitals** and refactored code to significantly boost **SEO** performance.

NortonLifeLock (Avira) | Full Stack Developer (Apr 2021 – May 2022, Tett nang, Germany)

- Tech Stack: **React.js, TypeScript, Node.js, AWS (CloudFormation, Lambda Functions, IAM)**
- Delivered **high-quality cloud features** consistently in a 100% remote global team, with high autonomy.
- Designed and built scalable **AWS cloud solutions** using **IaC**, ensuring robust and repeatable deployments.
- Automated end-to-end deployment workflows by developing and maintaining efficient **CI/CD pipelines**.

Avira | Full Stack Engineer (Nov 2018 – Mar 2021, Tett nang, Germany)

- Tech Stack: **React.js, TypeScript, Node.js, AWS.**
- Expanded full-stack capabilities for **Avira Password Manager**, ensuring a secure cross-platform user experience
- Developed an **AWS AppSync data synchronization** module for offline and real-time functionality.
- Built **event-driven, serverless cloud services** using **AWS Lambda, DynamoDB, and CloudFormation**

Independent Projects:

Affordable Flights from Germany - <https://flights.neillgiraldo.com/> **Motivation:** Inspired by my constant desire to explore new places, I built a website to explore affordable destinations within a month range in realtime. The purpose of the website was to optimize the amount of time spent in the search of options to travel to.

- Tech Stack: **Next.js, Tailwind CSS, FastAPI (Python), GitHub Actions, Vercel, Ryanair API.**
- Built a real-time backend API using **FastAPI** to aggregate data and optimize travel planning search efficiency.
- Integrated external **APIs** and automated continuous deployment workflows via **GitHub Actions to Vercel.**
- Applied **SEO strategies** and analytics tracking to significantly boost platform visibility.

Additional Experience:

Olimpia IT | Software Developer (Jun 2018 – Oct 2018) – Maintained high-traffic PIN generation system and UI features using Java & AngularJS.

Asesoftware | Systems Analyst (Innovation) (Jan 2018 – May 2018, Bogotá, Colombia) - Developed real-time bank monitoring prototype and data dashboards.

Avira | Software Engineering Intern (Jun 2016 – Dec 2016, Tett nang, Germany) - Automated licensing processes and built an early AI chatbot prototype using Python

Certifications & Training:

 **Foundations of Generative AI** – Udacity (2025)

 **CloudFormation Master Class** – Udemy (2019)

 **Intro to Data Analysis & Statistics** – Udacity (2022)

 **Hello React – React Training** – Udemy (2018)