Jose Daniel Garcia Arias

Electronic Engineer
MSc in Software Engineering

- July 11, 1996
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- Colombian
- Professional License
- Available for travel and relocation

Professional Networks –

- LinkedIn (click)
- GitHub Link

Languages

Language	Level
🇨🇴 Spanish	● ● ● ● ●
🇬🇧 English	● ● ● ● ○

Technical Skills

Skill	Level
Java	● ● ● ● ●
Git and GitHub	● ● ● ● ●
SQL	● ● ● ● ●
Spring Framework	● ● ● ● ○
JMeter	● ● ● ● ○
Angular	● ● ● ● ○
PL/SQL	● ● ● ● ○
HTML	● ● ● ● ○
CSS	● ● ● ● ○
Python	● ● ● ● ○
Docker	● ● ● ○ ○
Maven	● ● ● ○ ○
AWS	● ● ● ○ ○
JavaScript	● ● ● ○ ○

Work Experience

05/2025 – Present

Senior Professional Developer   Carvajal Tecnología y Servicios

As part of a high-level development team, I participate in the construction and evolution of a regional document management system (Colombia, Mexico, and Peru). My role focuses on the technical implementation of full-stack solutions, cloud resource optimization, and the application of software quality standards.

• Implementation of efficient storage strategies in AWS (S3 Deep Archive, Glacier), achieving operational cost reduction through intelligent information lifecycle management.

• Development of components under Hexagonal and Event-Driven Architecture, deployed in container services (EKS, ECS) and managed via identity services (AWS Cognito, IAM).

• Application of SOLID principles, Clean Code, and design patterns in an agile environment, ensuring code maintainability and scalability.

Skills: Java, Spring Boot, Angular, AWS (S3, EKS, ECS, IAM, Cognito), Hexagonal Architecture, Event-Driven Architecture, TypeScript, Scrum, HTML, CSS.

10/2022 – 05/2025

Development Engineer   Red Empresarial de Servicios S.A

FullStack Developer in large-scale integrations (Supergiros, Grupo Éxito) using Scrum. Technical leadership applying SOLID principles and architecture patterns (MVC, SAGA) in web and mobile solutions.

• Secure development in Java LTS (8, 11, 17) implementing TLS/SSL and mTLS protocols.

• Design and optimization of databases (Postgres, Oracle) ensuring integrity and efficiency.

• System integration via REST APIs and mobile migration to modern stack (Angular, Spring, Flutter).

• Execution of load and unit testing (JMeter, JUnit, Mockito, Spring Test).

Skills: Java Spring Boot, Angular, PL/SQL, Oracle/Postgres, Docker, Azure, Microservices, JMeter, Git/SVN/Flow, CI/CD, HTML/CSS/JS.

01/2022–07/2022

Analytic and Big Data Intern   Accenture Colombia

I served as a Junior Data Engineer, collaborating in the development, implementation, and delivery of a machine learning model to predict purchase abandonment. Among my responsibilities, I focused on optimizing AI models through hyperparameter tuning and creating dashboards in PowerBI to visualize the results.

• Optimized models using techniques such as Support Vector Machine, Random Forest, and Deep Networks.

• Developed optimized databases for training Machine Learning models.

• Designed PowerBI dashboards for monitoring results.

Skills: Python, NumPy, Artificial Intelligence, Apache Spark, Pandas, PowerBI, Machine Learning, Keras, TensorFlow.

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About Me —————

I am an electronic engineer with experience in full-stack software development and cloud architecture. I have participated in the integration of major companies in the country, such as Grupo Éxito, Supergiros, and Carvajal Tecnología y Servicios. My technical strengths include Java, Spring Boot, Angular, AWS, PL/SQL, and modern architectures such as Hexagonal and Event-Driven.

I am currently in the final semester of my MSc in Software Engineering at Universidad de los Andes, deepening my knowledge in software architecture, web development, automated testing, and cloud applications.

Throughout my career, I have worked translating business requirements into effective technical solutions, applying SOLID and Clean Code principles, optimizing cloud resources, and addressing complex challenges across different software development domains. My multidisciplinary background enables me to adapt to diverse technological contexts and contribute to various areas of software engineering.

Soft Skills —————

- 👥 Teamwork
- 💡 Curiosity
- ✋ Initiative
- ⚙ Adaptability
- 🕐 Time Management
- 💬 Communication
- 🧩 Problem Solving
- 👤 Leadership

Software —————

Azure	Microsoft Office	Power BI
Postman	Postgres DB	Libre Office
LaTeX	Keras	Oracle DB	JMeter
SO Linux	SO Windows	Pandas

01/2019–12/2021 — **IT Technician and Support** — *Diverjuegos SAS*

Responsible for the design, development, and implementation of software requirements, as well as providing technical support for the technological infrastructure and overseeing information security systems.

- Designed the microservices architecture for an administrative wiki portal, aimed at documenting new employee training.
- Developed both back-end and front-end using Spring Data, Spring Boot, Spring Gateway, and Angular.
- Provided maintenance and technical support across the company's various locations.

Skills: Spring Framework, Technical Support, Java, Docker, Spring Boot, Angular, Information Security, IP Systems Design, HTML, CSS, JavaScript.

Professional Studies

Academic Studies

2024–Present — **MSc in Software Engineering** — *University of the Andes*
Currently in the last semester of my master's, covering topics such as software and web architecture, automated testing, web applications, cloud applications, among others.

2015 – 2023 — **Electronic Engineering** — *University of the Valley*
Thesis: Classification of cardiovascular pathologies using deep learning techniques based on ECG signals.

2021 – 2021 — **Diploma in Web Programming** — *Technological University of Pereira*
The diploma covered 4 areas: Python, JAVA, software development, and web applications over 800 hours.

Certifications

2023 — Scrum Foundation Professional Certificate (SFPC) — *CertiProf*

2023 — Scrum Fundamentals Certified (SFC) — *Scrumstudy*

Courses

2024 — Version Control with Git and GitHub — *University of the Andes*

2024 — Introduction to UML — *University of the Andes*

2024 — Python Programming — *University of the Andes*

2023 — PL/SQL From Scratch — *Udemy*

2022 — Python for everybody (specialization) — *University of Michigan*

Projects

2022 – 2023 — **Electronic Engineering** — *University of the Valley*
Design and implementation of a classification system for cardiovascular pathologies using recurrent and convolutional neural networks based on ECG signals.

Awards

08/2020–12/2020 — Award for Best Academic Average of the Semester. — *University of the Valley*

10/2021-04/2022 — Award for Best Academic Average of the Semester. — *University of the Valley*