

Jerson L. Huerfano

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PROFILE

I am a Mechatronics engineer with 5 years of experience in Software Engineering. I am capable of handling multidisciplinary projects with exceptional proficiency in low and high-level system integration. I consider myself a skilled programmer, adhering to best practices to deliver high-quality solutions. Additionally, I am a flexible and self-organized individual familiar with agile methodologies and have mastered team leadership, guiding team members to overcome resistance to change. Furthermore, as an artificial intelligence enthusiast, I have completed Coursera's Deep Learning specialization.

EDUCATION

- B.E. Mechatronics Engineer, National University of Colombia, September 2017.

COMPLEMENTARY EDUCATION • *Introduction to artificial vision and hyperspectral images applied in agriculture*, National University of Colombia, July 2017.

- *CCNA Routing and switching*, Cisco Network Academy.
- *Specialized program: Deep learning*, Coursera, license number EDNADUARR4D5
- *Certified PEGA System architect*, Pegasystems
- *Professional Java SE 17 Developer*, Oracle

EXPERIENCE

Senior Software Developer **Sonatype**

January 2024 - today

- Develops, tests, and documents complex programs as per specifications.
- Reviews specifications with team.
- Support stage and production environments.

Key Skills: Java, PostgreSQL, JUnit, Mockito, AWS ECS, AWS S3, Terraform, Test-containers, React, TDD, JIRA, Rally.

Senior Software Developer **Endava**

March 2021 - January 2024

- Designs, codes, tests, corrects and documents complex programs and program modifications from supplied specifications.
- Conducts reviews of supplied specifications, with others as appropriate.
- Provide support for standalone and distributed applications.

Key Skills: Java, Spring Boot, SQL Server, MongoDB, JUnit, Mockito, Spring MVC, C++, Visual C++ 2015, C#, OpenShift, AWS EKS, AWS S3, DynamoDB, Terraform, Kubernetes, Devcontainers, Copilot, OpenAPI, React, REST, TDD, JIRA, Rally.

Software Engineer
TechMahindra - Fintech solutions

July 2020 - February 2021

- Analyzes technical specifications and suggest code optimizations.
- Interacts with customers on need basis and flag any requirements or issues raised by the customer to the team.
- Embraces organizational change positively by bringing about changes in own work practices.

Key Skills: PEGA, REST, Java, Low-Code, Rally, Agile

SS. Software Developer
Conexia S.A.S. / IT solutions for healthcare industry
ONE-Colombia, Point of care solutions.

January 2019 - May 2020

- Implements web-based projects using clean architecture, focused on framework-independent solutions.
- Ensures code quality and performance using static analysis and code coverage.
- Adopts Agile methodology and best code practices.
- Implements any country-specific regulations applicable to healthcare service.

Key Skills: Java, Spring Boot, Jakarta EE, Postgres, JUnit, Mockito, Spring MVC, Docker, Swagger, JSF, REST, TDD, DDD, JIRA.

Software Developer
Parking International S.A.S, Bogota, CO.
Software Developer, Hardware and point of sale solutions

November 2017 - November 2018

- Developed solutions and hardware integration for point-of-sale.
- Implemented cost-effective solution for automatic parking barriers.
- Designed Automatic number-plate recognition in compliance with country-specific regulations.

Key Skills: C++, gSOAP, pthreads, Boost, Java, Python, J2EE, SQL Server, MySQL, JUnit, Mockito, Copilot, Angular, REST, TDD, OpenLPR.

Mechatronics Engineer
Lujociclas S.A.S, Bogota, CO.

October 2017 - November 2017

- Implemented automation control for injection molding machine.
- Performed maintenance of electric and hydraulic components.

Key Skills: Java, C++, Swing, Arduino, SCADA, PLC, ModBus.

PROJECTS

- Public portfolio: <https://github.com/hgl-team>
- Personal portfolio: <https://github.com/jlhuerfanor>

PUBLICATIONS

- J. Huerfano, O. Ojeda, N. Alvarez, *Telemetry system for trajectory estimation of vertical-ascent vehicles.* at International Congress of Mechanical and Mechatronics Engineering CIMM 2015, Cartagena, 2015.

- O. Ojeda, N. Alvarez, J. Huerfano, *Workbench design for rocket engine testing and characterization.* at International Congress of Mechanical and Mechatronics Engineering CIMM 2015, Cartagena, 2015.

SKILLS

- *Programming language:* C/C++, Java (8-21), JavaScript, Typescript, C#, Python, Go.
- *Frameworks:* Spring framework (webmvc/reactive), J2/Jakarta EE, Asp.NET core, Angular, React, Inversify, Qt, Boost, Node.js, GraalVM
- *Development platforms:* Spring Boot, Node.js, GraalVM, Visual C++ 2015
- *Development tools:* Maven, Gradle, Apache Ant, CMake, Devcontainers, IntelliJ, Visual Studio Code, Eclipse IDE, Git, JIRA, OpenAPI
- *Testing tools:* Gtest, Gmock, Spring Boot Test, JUnit (3-5), Mockito, Cucumber, Karate, Locust, Apache JMeter, Testcontainers
- *DevOps tools:* Docker, Podman, Kubernetes, Helm, Terraform
- *Databases:* Postgres, SQL Server, MySQL, MongoDB, Oracle DB, DynamoDB
- *Cloud service providers:* AWS, OpenShift, GCP
- *OS:* Linux, Windows, Android.
- *Others:* SAFe, Scrum, TDD, DDD, Embedded systems.

LANGUAGE SKILLS

Spanish: native Speaker.
English: C1 (IELTS Academic 2021).
German: B1.