

Juan Camilo Flórez Vanegas

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EDUCATION

UNIVERSIDAD NACIONAL DE COLOMBIA
COMPUTER SYSTEMS ENGINEERING
2016 - 2022 | Bogotá
Cum. GPA: 4.3 / 5.0

SOCIAL MEDIA

LinkedIn:// **VanJFlorez**
GitHub:// **VanJFlorez**
GitLab:// **VanJFlorez**

CERTIFICATES

- **B2 English Certification (IELTS)**
 - **C1 English Certification (EF)**
 - **Machine Learning with Big Data**
 - **Convolutional Neural Networks**
 - **Automate Stuff with Python**
 - Econometrics (University)
 - Micro and Macroeconomics (University)
 - Economic History (University)
- Some entries are linked to the certificates.

SKILLS

Programming languages
• Java • C++ • JavaScript • TypeScript • SQL • Python • Ruby • GNU/Bash • Batch

Frameworks
• Spring Boot • Quarkus • RubyOnRails • Django • EJB JSF JPA (Hibernate) PrimeFaces • React/Material-UI • Bootstrap • Android SDK • NumPy • Scikit-Learn • Pandas • Boost C++ • KNIME • Spark

Tools and Protocols
• Git • Kubernetes • Azure • Docker • Elasticsearch • Jaeger • OpenShift • Azure DevOps • Apache Flink • Apache Kafka • Apache Flume • Apache Camel • JUnit • JMS • Mockito • Visual Studio • Tensorflow • SOAP UI • GNU-Linux • MongoDB • Oracle Database 11g • SQLite • PostgreSQL • MySQL • Power Designer • Virtual Box • Linux Servers • Audacity • Moodle • Maven • Gradle • SSH clients • Heroku • Jenkins • Google Compute Engine • TortoiseSVN • \LaTeX

Architectures and Metodologies
• Microservices • REST • Web Services • SOAP • DevOps (Azure) • Pipelining • Scrum • Good Practices (SOLID, Modularity, Design Patterns)

PROFILE

Computer Systems Engineer with 5 years of experience in Software Engineering and Development Professional with proficient skills in Mathematics, Software Development, Software Architecture and Software Design. Highly motivated by reaching goals and measurements. Agile learner. Up-to-date with State of the Art in software construction and implementation techniques. He is an Engineer committed with organizations mission statements, with a great sense of responsibility, commitment and good teamwork. Can speak English and Portuguese.

RECENT EXPERIENCE

LOGICAL GRAPHICS PROGRAMMING / BACKEND WEB DEVELOPMENT / FRONTEND WEB DEVELOPMENT / DATABASE DESIGN
SOFTWARE ENGINEER AND COMPUTER PROGRAMMER (SELF-EMPLOYED)
Jun 2023 - Current | 🇨🇴 Colombia
(Tools/Tech. stack) C++, OpenGL, Java11, SpringBoot, Next.js, PostgreSQL
- Disect several computer graphics applications; ProjectM, Blender, PyMol.
- Create a software system to track the price history of supermarkets in Bogotá.
- Build a software system to manage work and items for chain store of retail fix.
- Analize cicada communication with Fourier Analysis.

OPTUM ROOT CAUSE ANALYSIS / SOFTWARE DEVELOPMENT AND MAINTENANCE / SQL ANALYSIS AND OPTIMIZATION
MANAGER SOFTWARE ENGINEER
Oct 2022 - May 2023 | 🇺🇸 United States (remote)
(Tools/Tech. stack) SQL, Java EE 8, Spring Boot, Java Server Pages, JavaScript, Python
- Fix a 40k USD/year finance report that was providing the wrong commision amounts.
- Found and fix bugs in Optum Financial core application (Root Cause Analysis).
- Advanced SQL analysis and optimizations.
- Full stack development; from SQL DDL/DML to JavaScript frontend code.
- Write software documentation.
- Debug and patch this 15+ year old application.

CREDERA STREAM PROCESSING / MICROSERVICES
SENIOR JAVA SOFTWARE DEVELOPER
Nov 2021 - Oct 2022 | 🇺🇸 United States (remote)
(Tools/Tech. stack) Kafka, Java 11, AWS, Postgres, Spring Boot, Kubernetes
- Re-implementation of Java7 legacy *monoliths* to Java11 *microservices*.
- Write several *Kafka* consumer-producers for the user-engagement streaming pipelines.
- Microservices development with *Spring Boot*.
- Custom libraries development for microservices and ERP processing units that share the same business logic.
- Member of DE+I committee (marketing pillar).

CLARO BIGDATA PROCESSING / MICROSERVICES
JAVA SOFTWARE DEVELOPER
Feb 2020 - Nov 2021 | 🇧🇷 Brazil (remote)
(Tools/Tech. stack) Java 11, Apache Flume - Flink - Kafka - Camel, MongoDB, Spring Boot, OpenShift
- Microservices development with Spring Boot, Quarkus and Django. Some examples can be seen **here**.
- Big Data processing components using Apache Kafka, Flink, Flume and Camel.
- Batch Scripts and Java programs to automate Docker images builds and storage within Docker Hub cloud registry.
- Deployments in Openshift Container Platform pre-production environments. This includes scripts for builds and image stress tests.
- Provide mentorship for Junior and entry-level developers.
- Take part as technical expert in 'MiClaro App' UI enhancements project.

ZYOS BACKEND MONOLITH DEVELOPER / SERVER SIDE UI DEVELOPER
FULLSTACK SOFTWARE DEVELOPER
Jan 2019 - Feb 2020 | 🇨🇴 Colombia
(Tools/Tech. stack) EJB, JSF, Primefaces, JPA (Hibernate), Angular 9, JavaScript (ES6), Maven, Git, Apache TomCat
- Made improvements to *Edificios Davivienda* server software core features.
- Develop responsive *front-end* software and implemented some styling improvements
- Implemented from scratch several *JavaScript* components (notifications, ratings, snackbars) to improve the user experience.
- Backend software development to *Mi Vivienda BCP* server software in order to boost and correct bugs in edge execution cases. New functionalities to the overall application. *Edificios Davivienda* available **here** and *Mi Vivienda BCP* available **here**.

CENTRO DE PENSAMIENTO UNAL
SOFTWARE ENGINEER, REQUIREMENTS ENGINEER
Jun 2018 - Dec 2018 | Bogotá
(Tools/Tech. stack) Ruby, RubyOnRails, NGinX, PostgreSQL, Debian-Linux, Moodle, PHP, SSH, Heroku, Google Compute Engine, Git, Docker, Rancker
- Online course implementation with Moodle (available **here**) and a forum web application for that course with Thredded (available **here**). Full repository **here**.
- Requirements gathering on what software solution adapts better to the team needs.
- Customize the *Moodle* and *Thredded* deployments to meet the team requirements.

GRUPO SEPRO
SOFTWARE DEVELOPER
Jan 2018 - Jun 2018 | Bogotá
(Tools/Tech. stack) Python, Django, JavaScript, ExpressJS, Unicorn, Apache HTTP Server, Git, VSCode, MySQL, Heroku
- Designed and implemented a survey information system that computes statistics and measurements over the answers submitted. This survey system was used to evaluate the Avocado and Sugar Cane derivatives supply chains performance from Cauca to Bogota.
- Coordinated a team of 3 undergraduate students to achieve the project goals. Two of them worked in software development and the another one worked in QA. Available **here**.