

Rodríguez-Cárdenas DANIEL HUMBERTO

☎ + (57) 300 787 9310

@ danielrcardenas@gmail.com

👤 Born in Bogotá, Colombia on October 12, 1985 (35 years old)

📍 Calle 19 este 8 90, Madrid, Cundinamarca, Colombia

in linkedin.com/in/daniel-rodriguez-cardenas

🐙 github.com/danielrcardenas

MSc.Candidate in Systems Engineering and Computer Science with four years of experience as a Software and Artificial Life Researcher, including two years of research on self-assembly of software, artificial chemistries, and two years applying complexity research on software simulation. JAVA/J2EE, python developer. Postgres geo-database implementer and Geographic Information System experience over leaflet and ESRI platform. SOLID principle fan and promoter. Software Engineer, mainly on back-end solutions for multiple public and private companies. I started my experience at petroleum and gas companies. I worked on an ML project for deforestation detection and land use, automating report generation, increasing frequency from 1 to 24 every two years, and reducing nearly 40% cost on manual analysis

📁 EXPERIENCE

Present
July 2019 Bogotá, Colombia

Principal Software Engineer, PRODIGIOUS,

Nissan web page API developer, improve software development process quality by 10% of production, automation test implementation. Develop API features for car configuration to improve user experience.

- Build configurator car Core Services API.
- Build back-end endpoints using Java and Spring framework.
- Architectural discussions to build products design.
- Continuous integration/delivery with Jenkins, Bamboo and AWS.
- Support test process by implementing python scripts to extract and mock data.
- Backward compatibility test support using rest assured framework.
- Knowledge sharing through Team Learning sessions, technical talks and pair programming sessions.

Java 1.8 Apigee Python Postman Confluence Jira Jenkins Bamboo Maven Git Amazon Web Services
Docker

July 2019 February 2016 Bogotá, Colombia

Senior Software Engineer & Researcher , NUESTRA SEÑORA DEL ROSARIO UNIVERSITY,

I worked at the innovation research center <https://www.urosario.edu.co/Escuela-de-Administracion/Centros/Centro-de-Innovacion/Presentacion/>. At the beginning it was a big challenge to get to feel confident enough with my job in the team. I had to learn and work with doctorated professors to solve hard problems in logistics and social science projects. I directed 3 agent-based simulation workshops for internal and external students. I prepared material for programming classes. I introduced computer science concept to the innovation research.

- EdX MOOC material and classes preparation and teaching.
- Agent-based simulation research.
- Tool develop to improve subject and room assignation by solving Time Table Problem.
- Logistics problems solution using metaheuristics and evolutionary computation.

Agent-based simulation Netlogo Anylogic Repast Java MongoDB Git Trello Research

February 2016	Geographic Software developer, COLOMBIA ENVIRONMENT MINISTRY & COLOMBIA NATURAL CONSERVATION PARKS ,
December 2014 Bogota Colombia	<p>Geographic and spatial database administrator, web developer for cartography visualization on the web. Geographic services integration and programming. https://mapas.parquesnacionales.gov.co.</p> <ul style="list-style-type: none"> > Front-End development using ESRI API. > Development of the Back-End using python for geographic analysis.. > 90% of geo-processing integration and automation. > Cloud servers migration. > Relational database in Postgres. > ESRI tools integration > Development software coordinator <p>Java Python Google cloud Javascript GIT ESRI API Postgres Postgis Cloudflare Sentry</p>
May 2014 January 2012 Bogota Colombia	<p>IT Project Manager, DATUM INGENIERIA LTDA,</p> <p>I was in charge of generating the technical software proposals, once the projects were approved I lead the projects from the technical perspective.</p>
December 2011 December 2010 Bogota Colombia	<p>Systems administrator, support and Software Developer, DATUM INGENIERIA LTDA,</p> <ul style="list-style-type: none"> > Participated in the analysis, programming, testing, and release of several Geographic Information Systems. > Improve and organize raster and vector data improving near 70% data pro-cessing from satellite images > Trained end users about the use of the system giving them technical and functional support. > The whole deployment process was manual, I had to be responsible for setting up the product in RedHat Linux server. > Raster images classification based on geo-statistics <p>R Java Enterprise Edition (JEE) SQL Java Server Faces (JSF) EJB JPA Jasper Reports Oracle Data Base Oracle Spatial JBoss Application Server Lefleaf</p>

FORMATION AND AWARDS

2018 - present	MSc Systems Engineering and Computing [GPA : 3.6] , Currently on thesis defending. Focused on evolutionary computation, Artificial life, bio-inspired optimization and software engineering. Master thesis is about self-organizing software code.
2018	ACM GECCO scholarship , Scholarship to travel and expose the software refactoring recommendation system by using evolutionary computation at the GECCO conference in Kyoto, Japan.
2014	BSc. Systems Engineer [GPA : 3.4] , focused on Architectures and software development from the District University of Bogota FJC in Colombia. I obtained a degree with meritorious thesis for my research on implementing Web software architectures and geographic information integration for environment monitoring.
2014	Esri Young Scholar Award 2014 , Award given at the Esri User Conference in San Diego CA, for developing a Geographic Information System to monitoring environment impact to oil companies in Colombia

LANGUAGES

Spanish	● ● ● ● ●
English	● ● ● ● ○
German (A1)	● ○ ○ ○ ○

FORCES

- > I am very passionate about what I do.
- > I love challenges and I approach them in a positive way.
- > I am convinced that a team is more productive as a whole and not with isolated independent members, therefore I like to bring people to work together.

VIEWS AND INTERESTS

- LIFE : Be happy and honest to myself, care about my family, respect others, be surrounded by good people and bring the best from them. That's what my life is made of.
- WORK : I am aware that work is the place where I am most of the day, therefore it is important for me to work in what I am passionate for. Collaborating with my team bringing ideas and good attitude to build a product its also very important.
- SPORT : I like Capoeira and love volleyball and swimming, I am basic skill on the guitar but I love playing.