

Resume

Juan Manuel Crescente

Last updated: May 2019

About

I'm a Software Engineer (PhD candidate in Engineer Sciences) from Argentina. I have more than 5 years of experience in software development using Django, PHP, Java and Kotlin, managing SQL databases, doing bioinformatics and working with local and remote teams across the globe. I like to do both things, front and back end. Always using Linux servers and cloud providers like AWS and Digital Ocean.

Personal

Name Juan Manuel Crescente

Date of birth 07/June/1989

Personal email juan@crescente.com.ar

Location Marcos Juárez / Córdoba / Argentina

Occupation PhD Candidate / CONICET (Until 2021)

Website: <http://crescente.com.ar/>

Github: <http://github.com/juancrescente/>

Linkedin: <https://www.linkedin.com/in/jcrescente/>

Education

Completed

Degree: Software Engineer (2008 / 2014)

University: Universidad Tecnológica Nacional (UTN) Facultad Regional Villa María (FRVM)

In course

Degree: Engineer Sciences Doctorate / PhD Candidate (2016 / in course)

University: Universidad Tecnológica Nacional (UTN) Facultad Regional Santa Fé (FRSF)

Status: In course

Languages

Spanish

Native

English

Spoken and written - Fluent - Complete 6 years course

What can I do

- Teamwork
- Proficient python programming
- Development of full stack applications in Django
- Create REST JSON APIs in Django or Laravel
- Create awesomes frontends using modern frameworks like Vue.js
- Manage cloud servers (nginx, apache, gunicorn... you name it)
- Use gitflow
- And much more...

Relevant work experience

Software development (2014 - 2016) PHP + Laravel

1. Software development in python / php / MySQL (Laravel) and devops for Digicel SRL. Stock administration, sales, geolocalization of salesmen and financial management.

Developer and System Administrator for www.valleyworks.us (2016 - 2019)

1. Software maintenance and system administrator for Plantbid (Madisonville, LA, USA).
Django
 - a. Direct contact with customers
 - b. Development of new requirements using Django
 - c. Administration of Ubuntu servers in rackspace
 - d. Agile project
2. Maintenance front and backend of a Java + PHP (codeigniter) application for DataGuardian Pros (Walnut Creek, CA). Remote. **Java**
 - a. Direct contact with customers
 - b. Take care of legacy project with no support from previous developers
 - c. Development of new modules using java and PHP
 - d. Administration of multiple instances of the platform in AWS

PhD student / CONICET scholarship / place of study: INTA / UTN (2016 - today)

Thesis Title: Bioinformatics identification and characterization of miRNA production hotspots and target genes in wheat genome

Key areas:

- Statistics
- Differential expressions
- Setting up genome browsers
- Development of in-silico methods for transposable elements identification
- Genomic databases management in R

Development and devops aptitudes

devops

1. Linux for servers and desktop (Ubuntu and centOS) - macOS for development
2. AWS, Rackspace and DigitalOcean

(programming languages, frameworks, libs, databases) I've worked with

1. Python + Django | pip | conda
 - a. django-rest-framework
 - b. django-channels
 - c. SPA
 - d. pandas
2. PHP + Laravel | composer
3. Java for desktop / web and Kotlin for Android
4. MySQL and Postgres
5. R
6. Apache cordova

Other collaborations

IAESTE student. Participation in research project in *University of Applied Sciences in Zwickau, Germany* (July / September 2013)

Develop an augmented reality (AR) based maintenance tool for mobile devices. Tasks: Compare and select an AR framework based on several benchmarks. IAESTE program.

Exposeed secondment . Exome-wide SNPs effects prediction in wheat. CREA Italy (August / November 2017)

Collaboration in genomics research center, CREA, in Fiorenzuola d'Arda, Italy. Role: Development of a pipeline for effect predictions of single nucleotide polymorphism in bread wheat.

Financial support: <http://www.exposed.eu/>

Project: <http://www.whealbi.eu/>

Peer-reviewed publications

1- Gigascience - Oxford Academic: Phenobook: An open source software for phenotypic data collection

Juan M Crescente, Fabio Guidobaldi, Melina Demichelis, Maria Formica, Marcelo Helguera, Leonardo Vanzetti.

DOI: <https://doi.org/10.1093/qigascience/qiw019>

2- BMC Bioinformatics: MITE Tracker: An accurate approach for identifying miniature inverted-repeat transposable elements in large genomes

Juan M Crescente, Diego Zavallo, Marcelo Helguera, Leonardo Vanzetti.

DOI: <https://doi.org/10.1186/s12859-018-2376-y>

3- Cereal Research Communications: Significant effects in bread-making quality associated with the gene cluster Glu-D3/Gli-D1 from the bread wheat cultivar prointa Guazú

M Demichelis, LS Vanzetti, **JM Crescente**, MM Nisi, L Pflüger, CT Bainotti, MB Cuniberti, LR Mir, M Helguera

DOI: <https://doi.org/10.1556/0806.46.2018.055>

Congresses and conferences participation as first author

1- International Plant Molecular Biology Congress

Juan Manuel Crescente, Leonardo Vanzetti, Sergio Gonzalez, Fabio Guidobaldi, Máximo Rivarola, Miroslav Valarik, Hana Simkova, Jaroslav Dolezel, Gabriela Tranquilli, Norma Paniago, Viviana Echenique, Marcelo Helguera

FINDING WHEAT CHROMOSOME 4D miRNA PRODUCTION SITES AND TARGET GENES ACROSS THE WHOLE GENOME THROUGH A COMPUTATIONAL APPROACH. IPMB 2015.

Foz do Iguazu, October 2015

2- 45 Jornadas Argentinas de Informática (Informatics National Congress)

Juan Manuel Crescente, Fabio Guidobaldi, Melina Demichelis, Maria Beatriz Formica, Marcelo Helguera, y Leonardo Vanzetti

Libro de campo. Sistema de información para la toma de observaciones a campo. Buenos Aires, Buenos Aires, September 2016

3- 45 Jornadas Argentinas de Informática (Informatics National Congress)

Juan Manuel Crescente, José Salines, Fabio Guidobaldi, Melina Demichelis, Maria Beatriz Formica, Marcelo Helguera, y Leonardo Vanzetti

SIAM - Sistema Integral de Administración para el Mejoramiento.

Buenos Aires, September 2016

4- VIII Congreso Nacional de Trigo (Wheat National Congress)

Juan Manuel Crescente, Fabio Guidobaldi, Melina Demichelis, José Salines, Maria Beatriz Formica, Marcelo Helguera, Leonardo Vanzetti

INCORPORANDO A LOS PROGRAMAS DE MEJORAMIENTO DE TRIGO EN LA ERA DE "BIG DATA"

Buenos Aires, September 2016

5- Functional plant genomics symposium 2017

Juan M. Crescente, Fabio Guidobaldi, Marcelo Helguera, Leonardo S. Vanzetti

MINIATURE INVERTED-REPEAT TRANSPOSABLE ELEMENTS (MITES) ARE RELATED TO MICRORNA PRODUCTION SITES AND TARGETS GENES IN WHEAT

Rosario, May 2017

Intellectual property ownership

1- Software Production Copyright - National Direction of Author Copyright Argentina.

Phenotypic data management tool. File N° 5266780.

December 2015

2- Software Production Copyright - National Direction of Author Copyright Argentina.

SIAM Software for breeding management. File N° 5325350.

December 2016

Public Engagement with Science and Technology

1- INNOVAR National Exposition

SIAM - Integrated Software for Crop Improvement

Juan Manuel Crescente, Leonardo Vanzetti, Fabio Guidobaldi, Belén Conde
Tecnopolis, Buenos Aires, October 2016

2- INNOVAR National Magazine

SIAM - Integrated Software for Crop Improvement

Juan Manuel Crescente, Leonardo Vanzetti, Fabio Guidobaldi, Belén Conde
Tecnopolis, Buenos Aires, October 2016

Complete PhD courses

1- Summer Workshop - "Machine Learning: ¿Do machines learn from data?"

Prof. Dr. Gustavo Meschino - 3 / 4 March - Universidad Nacional de Mar del Plata

2- Bioinformatics, evolution and comparative genomics

Prof. Dr. Arjen ten Have - 27 March / 10 October, 80 hs - Universidad Nacional de Mar del Plata

3- Advanced IT Security

Prof. Dr. Guillermo Marro Bruno - October 2015, 20 hs - UTN FRVM

4- Statistics and Biometry

Prof. Dr. Mónica Balzarini - November 2016, 30 hs - Universidad Nacional de Córdoba. Facultad de Agronomía

5- Epistemology

Prof. Dr. Federico Viola - October 2017, 30 hs - UTN - FRSF

6- De Novo Assembly - Advanced Genomics analysis

Prof. Dr. Bernardo Clavijo (Earlham Institute) - December 2017, 32 hs - INTA Castelar

7- Epigenetics

Dr Federico Ariel, Instituto de Agrobiotecnología del Litoral, May 2019, 60 hs