

JAVIER ESCOBAR-AVILA

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PROFILE

Java Developer with more than 5 years of professional experience. Junior Data Scientist with experience in data analysis with R and Python programming languages. Enthusiastic for building high quality, fast, and easily scalable software solutions that involve the processing and analysis of large amounts of data. Skilled in working with software development teams and end-users. Excellent communications skills in both English and Spanish.

TECHNICAL SKILLS

Programming Languages: Java (Experienced), R (Experienced), Python (Intermediate), JavaScript (Intermediate), C/C++ (Beginner).

Machine Learning and Natural Language Processing Frameworks: R, Keras (with Tensorflow), Weka, Mallet.

Databases: Oracle, PostgreSQL, Amazon RedShift, Vertica.

OS: Linux (Debian-based distributions) and Windows (both at intermediate level).

PROFESSIONAL EXPERIENCE

Processum Consultoría Institucional (www.processum.org) Bogotá, Colombia October 2009 – August 2014
Software Engineer in charge of designing, developing, and testing the controller and data access modules for a risk management system used by two large health care insurance companies in Colombia.

Lead Software Architect and Developer for H-STAR (<http://processum.org/eng/management.html>), a web-based risk management system.

Achievements and developed skills:

- Experience in designing and implementing a data warehouse based on Amazon RedShift and PostgreSQL, consumed by a reporting system developed with Java Server Faces and Saiku Business Analytics
- More than 4 years of Java programming using JPA and Hibernate
- Oracle and PostgreSQL development and management
- Ability to collect and handle end-user support request through phone and in-site
- Excellent communication skills with both technical and non-technical users
- Ability to make informed decisions about the adoption of third-party solutions (e.g., OLAP viewers, relational and column-based databases in the cloud) after carefully considering their contributions and risks

ACADEMIC EMPLOYMENT

Florida State University. Department of Computer Science. Tallahassee, FLAugust 2014 – current
Graduate Research/Teaching Assistant. Main Instructor for CGS-3066 Web Development and Design during Fall 2018.

Teaching Assistant for undergraduate and graduate courses such as Soft. Engineering I, II, and Graduate Soft. Engineering.

Achievements and developed skills:

- Five publications in renowned Software Engineering International conferences
- Excellent presentation and communication skills for researches and large groups of students
- Ability to create, execute, and evaluate experiments involving the collection and analysis of large amounts of structured and unstructured data, using tools for text processing, natural language processing, and classifier training and evaluation; high performance in their execution is always a priority
- Aptitude to identify and solve performance bottlenecks in data analysis pipelines

EDUCATION

Ph.D. in Computer Science.....August 2014 – current

Florida State University. Tallahassee, FL, USA.

Expected to graduate with a MS in Computer Science in Summer 2019

Advisor: Dr. Sonia Haiduc (<https://www.cs.fsu.edu/~shaiduc/>)

MS in Engineering – Systems Engineering and Computer Science.....2012 – 2015

Universidad Nacional de Colombia, Bogotá, Colombia

Thesis Title: “A Model for Automatic Categorization of Software Applications using Non-Parametric Clustering and Bytecode Analysis”.

Advisor: Dr. Mario Linares Vásquez (<https://profesores.virtual.uniandes.edu.co/mlinaresv/>)

Bachelor in Systems Engineering..... 2006 – 2010

Universidad Nacional de Colombia, Bogotá, Colombia

FEATURED PUBLICATIONS

(2019) **Escobar-Avila, J.**, Venuti, D., Di Penta, M., & Haiduc, S. “A Survey on Online Learning Preferences for Computer Science and Programming”. *Proceedings of the 41st ACM/IEEE International Conference on Software Engineering (ICSE’19)* SEET track, Montreal, Canada, May 25-28, 2019 (*To appear*)

(2018) Mills, C., **Escobar-Avila, J.**, & Haiduc, S. “Automatic Traceability Maintenance via Machine Learning Classification”. *Proceedings of the 34th IEEE International Conference on Software Maintenance and Evolution (ICSME’18)*, Madrid, Spain, September 23-29, 2018

(2017) **Escobar-Avila, J.**, Parra, E., & Haiduc, S. “Text Retrieval-based Tagging of Software Engineering Video Tutorials”. *Proceedings of the 39th IEEE/ACM International Conference on Software Engineering (ICSE’17)* Poster Track, Buenos Aires, Argentina, May 24-26, 2017.

(2015) **Escobar-Avila, J.**, Linares-Vásquez, M., & Haiduc, S. “Unsupervised Software Categorization Using Bytecode”, *In Proceedings of the 23rd IEEE International Conference on Program Comprehension (ICPC’15)*, Florence, Italy, May 18-19, 2015.

AWARDS AND RECOGNITIONS

Second place Graduate Student Winner of the ACM Student Research Competition at ICSE’15: “Automatic Categorization of Software Libraries Using Bytecode”. Awarded by ACM SIGSOFT.

Master Thesis Distinction. “A Model for Automatic Categorization of Software Applications using Non-Parametric Clustering and Bytecode Analysis”, 2015. Awarded by Universidad Nacional de Colombia.