César Soto Valero

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Summary

Experienced using static and dynamic program analysis techniques to improve software quality. Advanced knowledge in software debloating. Passionate about the use of machine learning, data analysis, and visualization techniques to extract useful information from multiple data sources.

Education

2018 – Present

Doctor in Computer Science (to complete in June 2023). Funded by the Wallenberg AI, Autonomous Systems and Software Program (WASP).
KTH Royal Institute of Technology — Sweden

2014 – 2016

Master in Computer Science.
Universidad Central de Las Villas — Cuba

2009 – 2013

Bachelor in Computer Science.
Universidad Central de Las Villas — Cuba

Work Experience

2018 – Present

Doctoral Student in Software and Computer Systems
KTH Royal Institute of Technology

2017 – 2018

Software Engineer
Centro Meteorológico Provincial de Villa Clara

2013 – 2017

Research & Development
Universidad Central de Las Villas

Projects

- Developed a Maven plugin that automatically detects and removes unused dependencies in software projects using static analysis. tool, paper

- Developed a Maven plugin that removes unused methods, classes, and dependencies in Java projects using dynamic analysis. tool, paper

- Performed a study of the software supply chain of the Ethereum clients Besu and Teku. tool, paper

- Performed a longitudinal analysis about the usage of software dependencies in the Java ecosystem. tool, paper

- Created a predictive model for analysing the performance of baseball pitchers using time series classification methods. paper

Programming Languages

Java	Advanced
R	Advanced
JavaScript	Intermediate
Python	Basic

Soft-Skills

Team player, fearless learner, persistent, good communicator, mentoring

Speaks

Spanish	Native speaker
English	Working proficiency
Swedish	Elementary proficiency