

# Jean Melo

<https://jccmelo.com>

## EDUCATION

### IT UNIVERSITY OF COPENHAGEN (ITU)

#### PH.D. IN SOFTWARE ENGINEERING

Jun 2014 - Aug 2017 | Copenhagen, DK

Thesis – Variability Bugs: Program and Programmer Perspective.

### FEDERAL UNIVERSITY OF PERNAMBUCO (UFPE)

#### M.S. IN COMPUTER SCIENCE

Mar 2012 - May 2014 | Recife, Brazil

Conc. in Software Product Lines, Variability and Static Analysis.

### FEDERAL UNIVERSITY OF ALAGOAS (UFAL)

#### B.S. IN COMPUTER SCIENCE

Feb 2008 - Feb 2012 | Maceió, Brazil

Conc. in Software Engineering.

## LINKS

**Twitter:** [twitter.com/jccmelo](https://twitter.com/jccmelo)

**LinkedIn:** [linkedin.com/in/jccmelo](https://www.linkedin.com/in/jccmelo)

**Github:** [github.com/jccmelo](https://github.com/jccmelo)

## SKILLS

### PROGRAMMING & TECHNOLOGIES

Language:

Proficient: Java • Scala

Familiar: C/C++ • Groovy • UML • SQL

Framework/Library:

EMF • JSF • Hibernate • PrimeFaces

Akka • Finagle/Thrift • Play

JUnit • ScalaTest • Grails

Database Mgt. System:

MySQL • PostgreSQL • DynamoDB

Version control:

Git • Mercurial

Agile:

Scrum • XP

Cloud:

AWS • SQS • RDS

Kubernetes • Docker

## WORK EXPERIENCE

### DIXA SOFTWARE DEVELOPER

Aug 2019 - Present | Copenhagen, Denmark | <https://www.dixa.com>

Customer Friendship Platform for a better customer and agent experience.

- Working on making the platform more robust and scalable.
- Developed satisfaction ratings (aka, CSAT) for chat, improving the overall awareness to a success customer engagement.
- Developed conversational assistant for chat with customizable questions/messages to better route on the specific customer need.
- Technologies: Scala, Finagle/Thrift, K8s, AWS services.

### CONFIGIT A/S SOFTWARE DEVELOPER

Oct 2017 - Jul 2019 | Copenhagen, Denmark | <https://www.configit.com>

Solving complex product configuration problems.

- Maintained Configit Build, a Java-based platform that lets users model highly customizable products, and create custom CPQ (configure, price, and quote) applications based on those models.
- Maintained the Document Designer and Generator.
- Technologies: Java, EMF, Git, Maven.

## RESEARCH EXPERIENCE

### CARNEGIE MELLON UNIVERSITY | VISITING RESEARCH SCHOLAR

Sept 2016 - Mar 2017 | Pittsburgh, PA, USA

Worked on variability-aware analysis for understanding patches in highly-configurable systems, under the supervision of **Assoc Prof Christian Kästner**. I built a prototype tool in Scala, **CSlicer**, which takes a C program with preprocessor directives (`#ifdefs`) as input and generates a simplified program with `#ifdef` based on a program point.

### IT UNIVERSITY OF COPENHAGEN | PH.D. RESEARCHER

Jun 2014 - Aug 2017 | Copenhagen, Denmark

Developed methods and tools to find bugs and to improve debugging and maintainability of highly-configurable systems. Also, I set off to understand the impact of software variability through different perspectives using empirical research (experiments).

Supervisors: **Assoc Prof Claus Brabrand** and **Prof Andrzej Wąsowski**.

### FEDERAL UNIVERSITY OF PERNAMBUCO | M.Sc. RESEARCHER

Mar 2012 - May 2014 | Recife, PE, Brazil

Explored new approaches for tool based modularity. As a result, I implemented an Eclipse plug-in (**Emergo++**) that performs feature-sensitive dataflow analysis by capturing feature (code) dependencies and then providing information about other feature implementations that can be affected during a code maintenance task.

Supervisor: **Prof Paulo Borba**.

## LANGUAGES

Portuguese ●●●●●●  
 English ●●●●●●  
 Spanish ●●●○○○  
 Danish ●○○○○○

## INTERESTS

Football (soccer)  
 Fishing • Traveling  
 Foosball • Kart racing