Robert Melo

Software Internationalization Engineer

Software engineer with 9+ years development experience designing systems and applications. Specialization in Software Internationalization and Localization. Solid background in data structures, algorithms, and programming languages. Android applications development, Android platform and applications. Test automation for functional and localization validations. Fast learner and easily adaptable.



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AREAS OF EXPERTISE

Internationalization | Localization | G11n | i18n | L10n | Android | Unicode | ICU | CLDR | Bidi

Quality Assurance | SW Testing | Test Automation | UI Automator | JUnit | Java | Kotlin | Swift

PROFESSIONAL EXPERIENCE

Software Engineer
Apple

05/2021 - Present — *Seattle, WA, United States*

Achievements/Tasks

- Create, maintain, and expand continuous integration testing and automation for apps and services.
- Build testing and automation capabilities into the software and the development process to deliver quality at scale.
- Shape upcoming products in over 35 languages to more than 150 countries.
- Help to drive the innovation in automation development
- Enhance internationalization/localization support for all software experiences

Staff Internationalization Engineer
Motorola Mobility

07/2019 - 05/2021 — *Jaguariúna, SP, Brazil*

Achievements/Tasks

- Lead Android internationalization efforts by analyzing all Android apps & features delivered on Motorola phones
- Implement Localization strategy for Motorola products
- Provide technical guidance for our personnel (worldwide SW engineers and network of linguists)
- Participate in internationalization/Bidi-enabling projects. i18n & L10n engineering expertise with bidirectional languages
- Resizing and debugging of localized SW for Desktop, Web and Mobile platforms
- Design, development and maintenance of a robust code-scanning tool focused on Android i18n/L10n

Software Internationalization Engineer
Venturus (Motorola contractor)

09/2018 - 06/2019 — *Campinas, SP, Brazil*

Motorola partnership

Achievements/Tasks

- Analyzing Android platform and application features to identify potential localization and internationalization problems for up to 65 locales
- Providing technical guidance internally and worldwide to linguists and SW engineers
- Triaging and fixing software internationalization issues in 24-48 hours after being reported
- Resizing and debugging of localized software for Desktop and Web and Mobile platforms for over 50 locales
- Proficiency in bidirectional language systems and right-to-left scripts

PROFESSIONAL EXPERIENCE

Software Internationalization Engineer
CIn-UFPE (Motorola contractor)

10/2016 - 08/2018 *Recife, PE, Brazil*

Motorola partnership

Achievements/Tasks

- Analyzing Android platform and application features to identify potential localization and internationalization problems for up to 65 locales
- Providing technical guidance internally and worldwide to linguists and SW engineers
- Triaging and fixing software internationalization issues in 24-48 hours after being reported

Software Engineer
CIn-UFPE (Motorola contractor)

11/2014 - 10/2016 *Recife, PE, Brazil*

Motorola partnership

Achievements/Tasks

- Led the SW Automation tools and test scripts development from concept to operational state in 2/3 of the originally planned release time
- By developing novelty functionality enabling the proprietary test Automation tool to support domain-specific (i18n and L10n) validations achieved 300% increase in test productivity
- Trained 8 members of the test team to conduct functional and domain-specific (i18n and l10n) validations of the Motorola smartphones and mobile applications
- Led the development of i18n/L10n tools, providing maintenance support as well as tools training support for developers and test engineers
- Led the development of Android Studio plugins, providing i18n/L10n embedded features directly from IDE, increasing the productivity of activities related to G10n scope
- Led L10n tools team from design concept to operational state, with the adoption Agile methodologies for SW management. Re-creation of a management tracking system to track software defects and interaction between reviewers, linguists and engineers

Junior System Engineer
C.E.S.A.R

02/2012 - 11/2014 *Recife, Brazil*

Achievements/Tasks

- Worked on various projects for Samsung using array of Microsoft technologies (WPF and Windows Store applications)
- Technical decisions about software architecture and design solutions to achieve non functional requirements, such as high performance, robustness.
- Built Windows desktop and Android mobile features-rich applications.

Trainee System Engineer
C.E.S.A.R

08/2010 - 02/2012 *Recife, Brazil*

Achievements/Tasks

- Technical activities of Software Testing and Development
- Worked in a project for a multinational company, a linux-based embedded system for commercial automation, running applications that were written in C++, using hardware devices like barcode scanners, cash drawers, commercial scales, and thermal receipt printers

Intern
CHESF

04/2010 - 08/2010 *Recife, Brazil*

Achievements/Tasks

- Software Analyst
- Administrative operations
- Manipulating financial data to be inserted in the internal systems

EDUCATION

M.S. degree in Computer Science
Universidade Federal de Pernambuco

2013 - 2016 *Recife, Brazil*

Fields of study

- Software engineering, Software Testing, Test Automation
- Thesis: FREVO: a Framework and Test Tool Automation solution

B.S. degree in Computer Science
Universidade Católica de Pernambuco

2008 - 2012 *Recife, Brazil*

Fields of study

- Computer Science, Software engineering, Digital image processing

CONFERENCES & COURSES

Enabling Latin American Indigenous Languages for Android & Unicode CLDR
Unicode Conference 45 (Oct, 2021)

- Internationalization initiative centered in the effort of development of written usage of indigenous languages, highlighting all efforts, engineering challenges and requirements necessary to enable a language on Android & CLDR

AndroidFest (2018)
Conference/Issuer of the certificate

- Speaker in one of the largest Android events of Brazil, talking about Android Internationalization

CLDR Panel: CLDR Key Users and Contributors Answer Your Questions
Unicode Conference 44 @virtual (Oct, 2020)

- CLDR provides language and region-specific locale data and structure for software internationalization. Meet some of the key users and contributors to CLDR and hear about their learnings, pain points, and how to overcome those hurdles.

ICU Panel: ICU Expert Implementers Answer Your Questions
Unicode Conference 44 @virtual (Oct, 2020)

- ICU (International Components for Unicode) is a widely-used implementation of Unicode. ICU will be introduced briefly, and then we continue with a panel discussion focused on the experience of direct consumers of (and contributors to) the project.

LANGUAGES



Portuguese



English

SUPPORTED CAUSES

Indigenous Languages Revitalization

AWARDS

Motorola Bravo! Award (04/2021)
Motorola Mobility

- Serving our Customers

Motorola Bravo! Award (08/2019)
Motorola Mobility

- Team Award - Customer centricity

Motorola Bravo! Award (02/2021)
Motorola Mobility

- Entrepreneurship on Product-Platform & Common Services

Student Laureate (02/2008 - 06/2012)
UNICAP - Universidade Católica de Pernambuco

- Academic honor awarded to the best student in the undergraduate program in Computer Science finished on the first half of 2012, with overall average of 8,65.