Tiago Justino

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in *Tiago Justino*
 TiagoJustino

BS in Computer Science from The State University of Ceará and MS in Human Computer Interaction from The Rochester Institute of Technology. As Software Engineer at Gertec and co-owner of CUBi Energia worked with different programming language, from firmware to web front-end. Has HCI, Mobile and Embedded Systems, and Software Engineering as the main fields of interest. An easy going person who always enjoys learning about new subjects.

Education

May 2016	**MS in HCI**, *Rochester Institute of Technology*, United States GPA: 3.87.
Sep 2012	**BS in Computer Science**, *State University of Ceará*, Brazil.

Skills

Programming	C, C++, JavaScript, Node.js, PHP, C#, Java, Ruby, Shell	Markup	LaTeX, HTML, Markdown
Frameworks	Angular, Angular 2+, Express.js, React, PHP Slim	Databases	MySQL, DynamoDB, MongoDB, SQL Server
OS	Linux, Windows, Android	SCM	Git, SVN
Methodologies	Scrum	HCI	UX Design, Usability Testing
Embedded Systems	CC3200, Arduino, Particle Photon	Digital Fabrication	3D Printing, Fusion 360

Languages

English	Fluent	Portuguese	Native

Professional Experience

2017 - now	**Co-owner and Software Specialist**, *CUBi Energia*.
	Development of a MVP for collecting and visualizing energy consumption data using Arduino language with ESP8266 for firmware, Angular for front-end, Express.js and Node.js for back-end, DynamoDB for database and Amazon AWS and Elastic Beanstalk for production environment. The final platform was developed using CC3200, ADE7868A, ReactJs, KoaJs, Amazon Aurora and Elastic Beanstalk.
2016 - 2018	**Software Engineer**, *Gertec*.
	Development and maintenance of several web systems using Angular for front-end, PHP and C# for back-end and MySQL and SQL Server databases; Development and maintenance of embedded systems for PINPad and POS, using both embedded Linux and bare metal.
2015 - 2015	**UX Designer Intern**, *Hewlett Packard*.
	I worked on Grommet (`grommet.io`), creating and modifying UI components to ensure the framework is accessible, following the WCAG 2.0 standards.

2012 - 2013 **Software Engineer**, *CPQT / FCPC.*
I worked both in a Ruby on Rails server and an Android application. The two applications communicate so the devices are managed automatically. The system is called "Avatar" and its purpose is to alleviate the burden to manage multiple devices by taking advantage of the cloud instead of using a traditional ad-hoc decentralized approach.

2011 - 2012 **Software Developer**, *CPQT / FCPC.*
Bug fixing intelligent telephonic terminal firmware using the C programming language; Addition of new features to a product licensing management software using the Java programming language and the Struts framework;

2010 - 2011 **Software Engineer**, *CPQT / FCPC.*
Development of a Software for Palm WebOS using HTML and Javascript;

2009 - 2010 **Software Engineer**, *Instituto Atlântico.*
Development of a embedded software in a Digital TV.

2007 - 2009 **Software Engineer and Project Manager**, *Freelancer.*
Development of free software "Luz do Saber" for adult literacy for the Secretary of Basic Education of Ceará - SEDUC, using the C programming language and the SDL library.

Research Experience

2014 - 2014 **Research Assistant**, *FETLab - Rochester Institute of Technology, USA.*
State of the art review of the usage of digital fabrication technology, such as 3D printing and CNC, for the purpose of designing new ways of interaction for non-expert users.

2013 - 2014 **Research Assistant**, *CLOUDS Lab - University of Melbourne, Australia.*
Research and Development of an Android integration for Aneka, a Platform-as-a-Service solution for developing cloud applications. Development of a library allowing Android to send tasks to execute on an Aneka infrastructure.

Publications

T. Justino and R. Buyya. Outsourcing Resource-Intensive Tasks from Mobile Apps to Clouds: Android and Aneka Integration. 3rd International Conference on Cloud Computing for Emerging Markets (CCEM 2014, IEEE Press, USA)