Mateo Rodriguez

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PROFILE

I had a career managing small businesses when I became involved in the open source community. I returned to college to get a degree in Computer Science and have become a regular committer to multiple OSS projects.

EDUCATION

Tulane University, New Orleans, LA — BA in Computer Science and English, Dec. 2014
4.0 GPA in Computer Science (CMPS) courses.

SKILLS

Python, Build Systems, Android, Android SDK, Shell Scripting, Linux, Embedded Devices, Data Visualization, Java.

PROGRAMMING EXPERIENCE

Committer, Pants Build System   2014-Current

Pants is a build system that is in production at companies including Foursquare, Square, Oscar and Twitter. I designed and implemented a new backend for Pants that supports building Android apps. I have committed nearly twenty new tasks and targets including comprehensive testing and documentation.

Recurse Center (formerly Hacker School)   (January-April) 2015

I just completed a batch at the Recurse Center, where like-minded programmers take three months to hack on open source software and improve their skills. Acceptance is competitive and being self-directed and rigorous is prized.

Google Summer of Code (Twitter)   (May-August) 2014

I was selected by Twitter to work on the Pants build system for the Google Summer of Code program, for which students work on OSS. See Pants entry at top for more information about the build system.

N.O.R.A (NASA, IHMC)   (February-December) 2014

This was a collaboration with researchers and engineers from NASA and IHMC (Institute of Human and Machine Cognition). We used estimation theory and machine learning to model noise output from rotorcraft flight. I improved the modeling and data collection, created the logging system and also developed visualization software that interactively graphed the simulation's output. I coauthored a paper detailing the project (below).

Application Developer, Tulane University   (January-May) 2014

During the school year I was employed as an application developer. My project was an Augmented Reality app for Android devices using the Vuforia AR platform. This included 3D modeling with OpenGL and the Android NDK.

Maintainer, OpenPDroid/Auto-patcher   2012-2014
OpenPDroid and the Auto-patcher comprise an Android privacy project that allows granular permission management for the system and application layers. I maintained and contributed to OpenPDroid and was the primary author of the Auto-patcher. I lowered the technical barrier by writing an automatic updater and reducing user input from five arguments to one. I closed over 250 issues on these projects since 2013.

SELECT OTHER WORK HISTORY

Co-owner, Bella Grounds Maintenance; Pensacola, FL   2011-2012
Small business landscaping company, fulfilling contracts with condominium groups in the Gulf Coast.

Manager, The Boot; New Orleans, LA   2005-2010
The Boot is among the top 5 bars by revenue in the state of Louisiana. I managed the bar and attached store, which had over 60 combined employees. I was responsible for the banking, staffing, payroll, inventory and operations.

PUBLICATIONS

(2015) Morris, Johnson, Venable, and Rodriguez: Optimizing Rotorcraft Approach Trajectories with Acoustic and Land Use Models.

Presented at the15th AAAI(Association for the Advancement of AI) conference in Austin, TX.

ACTIVITIES

I have open-sourced several of my own programs while also committing to other OSS projects. That list includes Twitter's build system Pants, the Android OS CyanogenMod and multiple MOOCs from EdX and Coursera.

Recognized Developer on the Android developer site XDADevelopers.com.