

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 2014-2015

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. Pants is a build system that is in production at companies including Foursquare, Square, and Twitter. I designed and implemented a new backend for Pants that supports building Android apps. I have continued to contribute to the project since GSoC ended and earned commit privileges to all the Pants repos.

### Hacker School (January-April) 2015

I am attending Hacker School, 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

See Pants entry at top.

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

This was my senior project at Tulane University, and 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. I also created the logging system and developed visualization software that interactively graphs 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 use of 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 reduced 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 operation while being on call 24 hours a day.

**Owner/Manager, The Rendon Inn and The Hangar; New Orleans, LA 2002-2005**

Music hall and restaurant that I bought with college friends and worked at until Katrina.

**PUBLICATIONS**

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

Presented at the 15th 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](http://XDADevelopers.com).