

# RUSSELL FRANK

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## EXPERIENCE

Rutgers, The State University of New Jersey • Open Systems Solutions • Piscataway, NJ

*Application Developer*

December 2011 - Present

*Student Systems Programmer*

January 2010 - December 2011

- Algorithm design and implementation of the official Rutgers University Mobile Application, targeting iPhone, iPad, and Android devices utilizing the Appcelerator Titanium framework.
- Debugging the open source Objective-C core of the Appcelerator Titanium framework and submitting patches to improve the project.
- Designing, implementing and maintaining the server side data aggregation components which gather information for display by the Rutgers University Mobile Application.
- Providing the initial research and development of open source software for enterprise-level servers throughout Rutgers University.
- Being part of a team responsible for building and maintaining RPM packages used throughout a user community of over 70,000 faculty, staff and students.
- Authoring user utilities, plugins, and a custom Rutgers branded theme for a customized version of the Roundcube Webmail Client.

Music Application • Burst Development • Warren, NJ

*Co-developer, System Administrator*

June 2007 - June 2009

- Designing, implementing and maintaining the Music Application, a Facebook application allowing users to post music to profiles
- Maintaining a server infrastructure to handle the 2 million users and 40 request per second load generated by the app.

Team 41 Robotics • First Robotics Competition • Warren, NJ

*Lead Developer*

September 2007 - June 2009

- Participated in the First Robotics Competition (FRC) Regionals New Jersey & New York in both 2008 & 2009; Participated in the FRC Nationals in 2008
- Designed and implemented a blob detection algorithm in C for image processing and artificial intelligence.
- Designed and implemented a depth perception algorithm which measured the distance from an object by utilizing stereoscopic vision.
- Won the FRC regional in New York and competed at the Nationals in Atlanta, Georgia in the 2008 FRC season.

## OPEN SOURCE PROJECTS

|                   |   |  |
|-------------------|---|--|
| <b>tsm</b>        | <a href="https://github.com/rf/tsm">github.com/rf/tsm</a>               | SDK manager for Titanium   |
| <b>nd</b>         | <a href="https://github.com/rf/nd">github.com/rf/nd</a>                 | Documentation viewer for Node.js modules & programs                  |
| <b>mockti</b>     | <a href="https://github.com/rf/mockti">github.com/rf/mockti</a>         | Mock of entire Titanium namespace to facilitate testing              |
| <b>renderizer</b> | <a href="https://github.com/rf/renderizer">github.com/rf/renderizer</a> | Automation of graphics rendering using Inkscape or Adobe Illustrator |
| <b>moar</b>       | <a href="https://github.com/rf/moar">github.com/rf/moar</a>             | Cross platform \$PAGER for node.js                                   |
| <b>spade</b>      | <a href="https://github.com/rf/spade">github.com/rf/spade</a>           | Injects events into Titanium apps                                    |
| <b>tylus</b>      | <a href="https://github.com/rf/tylus">github.com/rf/tylus</a>           | Simple stylesheet engine for Titanium                                |
| <b>nextbusjs</b>  | <a href="https://github.com/rf/nextbusjs">github.com/rf/nextbusjs</a>   | Reasonable interface to the NextBus API in node                      |

## COMPUTER SKILLS

**Programming Languages** Javascript • PHP • C • Python

**Also Familiar With** Ruby • Java • Objective-C • Scala • Clojure • SQL • C++

**Additional Skills** RPM Building • UNIX toolchain • L<sup>A</sup>T<sub>E</sub>X • Linux System Administration

## EDUCATION

B.S. in Computer Science, Minor in Mathematics expected in 10/2014

References Furnished Upon Request