

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

tsm	github.com/russfrank/tsm	SDK manager for Titanium
nd	github.com/russfrank/nd	Documentation viewer for Node.js modules & programs
mockti	github.com/russfrank/mockti	Mock of entire Titanium namespace to facilitate testing
renderizer	github.com/russfrank/renderizer	Automation of graphics rendering using Inkscape or Adobe Illustrator
moar	github.com/russfrank/moar	Cross platform \$PAGER for node.js
spade	github.com/russfrank/spade	Injects events into Titanium apps
tylus	github.com/russfrank/tylus	Simple stylesheet engine for Titanium
nextbusjs	github.com/russfrank/nextbusjs	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^AT_EX • Linux System Administration

EDUCATION

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

References Furnished Upon Request