Pranav Ravichandran

Gainesville, FL ◇ *me@onloop.net* ◇ *http://onloop.net* ◇ *http://github.com/pranavrc*

Education

Anna University   2009-2013
St. Joseph's College of Engineering, Electrical and Electronics Engineering Department
Bachelor of Engineering in Electrical and Electronics Engineering. CGPA: 7.44/10

Thesis, Final year   2013
Gestural interface with Electrooculogram-based eye gesture detection and classification.

University of Florida   Expected 2017 Grad
College of Engineering, Computer and Information Science and Engineering Department
Master of Science in Computer Science

Technical Strengths

Languages	Python, Lisp, JavaScript, C
Tools &Environment	Unix, Emacs, Bash, Git, Make/Cmake, Valgrind, Nginx, LaTeX
The Web	HTML, CSS, Django, Node.js, jQuery, Backbone.js
Databases	PostgreSQL, MongoDB

Experience

Google Summer of Code, Google   Apr - Sep 2011
Student Developer   *Remote*

· Integrated SMARTS, a game AI library, into KDE Gluon, giving it the capabilities of a Behavior Tree system.
· Developed a KPart GUI to plug the SMARTS Behavior Tree editor into Gluon.

HappyFox, Tenmiles   Jan 2014 - May 2015
Core Developer   *Chennai, India*

· Implemented features, enhancements and integrations for HappyFox, HappyFox Chat and related components.
· Developed a decoupled REST-based task-server with Celery and RabbitMQ, to handle deferred services.
· Created contextual search for knowledge base articles using Latent Semantic Analysis.

Open Source Contributions

Mozilla   2012-2013
Developed a code commenting and uncommenting feature for the Mozilla Firefox source editor, implemented W3C spec restrictions on WebIDL dictionary member types, and contributed other patches and fixes.

PySynth   July 2012
Created an interactive Command Line Interpreter to parse Musical Notation and render tunes on the fly, implemented multi-library support for audio playback, among other patches.

Independent Projects

Tenor A project to construct music theory and generate accessible music with Clojure and Overtone.

Transit.js An extensive JavaScript library to create purely client-side, interactive transit maps.

Scrip A tiny domain-specific language described using Parsing Expression Grammar (PEG) to compute debts.

Suburl A substitution-based URL sanitizer that allows shortening individual parts of the URL separately.

This.onloop Music search and album discovery tool using the Spotify Music API.

Howstat Resident player-statistics lookup bot for Reddit's Cricket Community, /r/Cricket.