

# Pranav Ravichandran

Chennai, India.  
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🌐 [www.onloop.net](http://www.onloop.net)

## Technical Skills

<b>Languages</b>	Python, Common Lisp, C, Java, JavaScript	<b>Environment</b>	Unix, Emacs, bash, git, make/cmake, valgrind, nginx
<b>The Web</b>	HTML, CSS, Flask, jQuery	<b>Mobile</b>	Android

## Work Experience

Apr - Sep 2011 **Google Summer of Code 2011**, *Student Contractor*, Google.  
Integrated SMARTS, a Game Artificial Intelligence Framework into KDE Gluon, and also implemented a KPart Graphical User Interface to plug the SMARTS Editor into Gluon.

## Open Source Contributions

Jan 2012 onwards **Mozilla**.

- Developed a Code Commenting/Uncommenting feature for the Mozilla Firefox Source Editor.
- Implemented W3C spec restrictions on WebIDL dictionary member types, among other patches.

July 2012 **PySynth**.  
Created an interactive Command Line Interpreter to parse Musical Notation and render tunes, aiding in on-the-fly notational composition with PySynth, and also implemented support for audio playback.

## Independent Projects

- **Transit.js** – <http://onloop.net/transit/>  
A JavaScript library to create purely client-side, interactive transit maps. The Chennai Suburban Rail map was created using transit.js.
- **Suburl** – <http://u.onloop.net/>  
A wildcard substitution-based URL Sanitizer/Shortener in Common Lisp.
- **This.onloop** – <http://this.onloop.net/>  
Music Search and Album discovery tool, with Common Lisp and Restas.
- **SC-ircle** – <http://soundcloud.onloop.net/>  
A Python/jQuery webapp to find out who among a Soundcloud user's followees aren't following them back; well-received by the spam-hit Soundcloud user community.
- **QuickHist** – <http://quickhist.onloop.net/>  
An URL-based ASCII Histograms API using Common Lisp, Restas and CL-WHO.
- **PDoS** – <http://music.onloop.net/>  
Patterned Disruption of Silence - An exercise in extrapolating algorithmic patterns to musical notes, with C, libsndfile and PortAudio.
- **Strand** – <http://devlog.onloop.net/sample>  
A minimal Content Publishing System written in Python, with support for CLI blogging.
- **Howstat** – <http://redd.it/1i7lh3>  
A player-statistics lookup bot for Reddit's Cricket community, /r/Cricket.
- **Post**  
Android app to send custom HTTP requests to a server.

**Github:** [github.com/pranavrc](https://github.com/pranavrc)

## Education

2009 - 2013 **B.E. Electrical and Electronics.**, *St. Joseph's College of Engineering, Anna University*.  
Completed 8 out of 8 Semesters - CGPA 7.4/10.0. (Fall 2013 graduate)

Thesis Electrooculogram based Eye-gesture recognition and classification - <http://onloop.net/hairyplotter>