

# Pranav Ravichandran

Gainesville, FL ♦ [me@onloop.net](mailto:me@onloop.net) ♦ <http://onloop.net>

## Education

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### 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

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

## Experience

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### 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

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### 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

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**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.