

# Pranav Ravichandran

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

## Education

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### University of Florida

*Master of Science in Computer Science. GPA: 3.67/4.00 (Semester I)*

Expected 2017  
Gainesville, FL

- **Fitness** A genetic programming system using Common Lisp.
- **Clause** A Common Lisp resolution refutation framework.
- **Tagspace** Web query classification using inter-article relationships in Wikipedia.

### Anna University

*Bachelor of Engineering in Electrical and Electronics Engineering. GPA: 7.44/10.00*

2009-2013  
Chennai, India

- **Thesis** Gestural interface with Electrooculogram-based eye gesture detection and classification.

## Experience

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### Google Summer of Code, Google

*Student Developer*

Apr - Sep 2011  
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 Inc.

*Software Developer (Full stack)*

Jan 2014 - May 2015  
Chennai, India

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

## Open Source Work

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### Mozilla Firefox

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

Authored 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 shortener 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.

## Technical Strengths

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### Languages

Python, Lisp, JavaScript, C

### Tools & Environment

Unix, Vim, Bash, Git, Nginx, LaTeX

### The Web

HTML, CSS, Django, Node.js, jQuery, Backbone.js

### Databases

PostgreSQL, MongoDB