

# Pranav Ravichandran

Chennai, India.  $\diamond$  [me@onloop.net](mailto:me@onloop.net)  $\diamond$  <http://onloop.net>

## Education

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

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

## Technical Strengths

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<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, 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 Contractor* *Remote*

- Implemented improvements and fixes to SMARTS, a Game Artificial Intelligence library for KDE Gluon.
- Integrated SMARTS 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** January 2014 - Present  
*Software Developer* *Chennai, India*

- Implementing features, enhancements and integrations for HappyFox and related components.
- Developed a decoupled REST-based task-server with Celery and RabbitMQ, to handle deferred services.
- Implemented Contextual Search for Knowledge Base Articles using Latent Semantic Analysis.

**National Institute of Information Technology** 2009  
*Computer (A+) and Network (N+) Technician Certification.* *Chennai, India*

- Completed hands-on courses as Computer Technician (60 hours) and Network Technician (48 hours).

## 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.
- Contributed other patches and bugfixes.

**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.

## Independent Projects

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<b>Transit.js</b>	A JavaScript library to create purely client-side, interactive transit maps.
<b>Suburl</b>	A placeholder substitution-based URL shortener and sanitizer in Common Lisp.
<b>This.onloop</b>	Music Search and Album discovery tool, using Common Lisp and Restas.
<b>Howstat</b>	Resident player-statistics lookup bot for Reddit's Cricket Community, /r/Cricket.
<b>PDoS</b>	An exercise in extrapolating algorithmic patterns to musical notes.
<b>Others</b>	<a href="http://github.com/pranavrc/">http://github.com/pranavrc/</a>