Pranav Ravichandran

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

Education

University of Florida — Dec 2016
Master of Science in Computer Science. GPA: 3.83/4.00 — *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 — 2009-2013
Bachelor of Engineering in Electrical and Electronics Engineering. GPA: 7.44/10.00 — *Chennai, India*

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

Experience

Yahoo — May - Aug 2016
Software Engineering Intern, Developer Platforms and Services — *Sunnyvale, CA*

· Projects working towards Manhattan 2 GA and iOS v3 mobile infrastructure.

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 Inc. — Jan 2014 - May 2015
Software Developer (Full stack) — *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

Mozilla Firefox — 2012-2013

Developed a code commenting and uncommenting feature for Mozilla Firefox developer tools, 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

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

Languages	Python, Lisp, JavaScript, Java, C
Other	Vim, Git, Nginx, HTML/CSS, Django, Node.js, Backbone.js, PostgreSQL, MongoDB