

Pranav Ravichandran

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Education

University of Florida

College of Engineering, Computer and Information Science and Engineering

Master of Science in Computer Science. GPA: 4.00/4.00

Expected 2017

Gainesville, FL

Anna University

St. Joseph's College of Engineering, Electrical and Electronics Engineering

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

2009-2013

Chennai, India

Thesis, Final year

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

2013

Experience

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, Tenmiles

Core Developer

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 Contributions

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

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, C

Tools & Environment

Unix, Vim, Bash, Git, Nginx, LaTeX

The Web

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

Databases

PostgreSQL, MongoDB