# Pranav Ravichandran

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## 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

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| **Thesis, Final year** | *2013* |

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

## Technical Strengths

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| **Languages** | Python, Common Lisp, C, Java, JavaScript |
| **Environment** | Unix, Emacs, Bash, Git, Make/Cmake, Valgrind, Nginx |
| **The Web** | HTML, CSS, Django, Node.js, jQuery, Backbone.js |
| **Databases** | PostgreSQL, MongoDB |

## Experience

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| **Google Summer of Code, Google** | Apr - Sep 2011 |
| *Student Developer* | *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.

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| **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.

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

## 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.

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| **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.

### Others

· Minor patches to Linux Kernel, CPython, Tomahawk Media Player among others.

## Independent Projects

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