Prithvi Raj Venkat Raj   *Curriculum vitae*

CONTACT
INFORMATION | 1055 E Evelyn Ave | Mobile: +1-352-575-0144
Sunnyvale, CA 94087 USA | E-mail: prv@cise.ufl.edu
WWW: vprithvi.com

EDUCATION

University of Florida, Gainesville, FL USA   **December 2012**

M.S., Computer Engineering   GPA: 3.62 (4.0 scale)

- Thesis Topic: Palantir – CrowdSourced Newsification Using Twitter
- Adviser: Professor Abdelsalam Helal
- Area of Study: Mobile computing and Social Networking

Crescent Engineering College, Vandaloor, Chennai, India   **December 2010**

B.Engg., Computer Science and Engineering   First Class

- Project Topic: Reverse Image Search on iPhone
- Adviser: Professor Angelina Gita

PROFESSIONAL
EXPERIENCE

LinkedIn, Mountain View, CA USA

Software Developer Intern   **May 2012 – August 2012**

- Engineered new APIs to support sponsored job listings and updated customer facing webpages to make use of the new functionality

Department of Education, University of Florida, Gainesville, FL USA

iPad Software Developer for K-CRATI   **November 2011 – May 2012**

- Adapting experiments designed to measure cognitive skills of kindergarten students

Grooveshark, Gainesville, FL USA

Software Development Intern - Data   **May 2011 – August 2011**

- Analysed metrics to characterize Apache Hadoop jobs
- Extended Sqoop mySql export functionality to include Apache Hive partitions

Microsoft, Chennai, India

Microsoft Student Partner   **June 2008 – May 2010**

- Primary liaison between Microsoft and Crescent College, Chennai
- Administered MSDNAA and Live@Edu

THESIS WORK

University of Florida, Gainesville, FL USA

Palantir: CrowdSourced Newsification Using Twitter

- Envisioned a system exploiting Twitter as a source & sink for breaking news
- Built a tag recommender, which suggests on avg. 2.5 useful tags per Tweet.
- *Technology*: Python, Amazon Mechanical Turk, Natural Language Tookit, Twitter API, Bing API, matplotlib, LaTeX, BibTeX

PROJECT WORK **University of Florida**, Gainesville, FL USA

Large Scale Data Analysis
- SAMwise: Providing City Trotting Recommendations
  - Compared different topic modeling toolkits, feedback mechanisms
  - *Technology*: Mallet NLP Framework, PHP, CSS, Google Maps API

Mobile Networking
- PRIDE: PRivacy preserving Intelligent riDEsharing
  - Analyzed wifi traces, and computed route similarity to find significant fuel savings while providing k-Anonymity for users
  - *Technology*: Google Earth KML generation, MySQL, bash scripting, matplotlib

Mobile Computing and Pervasive computing
- DroiDrive: Saving fuel with Android and Facebook
  - Characterized driving style by evaluating sensor output, designed metrics and incorporated game mechanics for motivation
  - *Technology*: Android SDK, Facebook API, SMSLib, SensorSimulator

- Optimization of Atlas Sensor Platform
  - Reduced Energy consumption by ~20 percent
  - Implemented sensor reading caching, dynamic push-pull conversion, lazy sensor initialization
  - Used ontology to eliminate certain actuator movement requests
  - *Technology*: Knopflerfish, Atlas Reactive Engine

Computer Networks
- Implemented a command line peer to peer file transfer program based on the bit torrent protocol
- *Technology*: Java

Distributed Operating systems
- Implemented applications that distribute computation to clients, CREW problem, Suzuki- Kasami broadcast algorithm using sockets and multithreading
- *Technology*: Java

Crescent College, Vandaloor, Chennai India

Senior Project
- Reverse Image Search on iPhone
  - Developed a geolocation aware image crawler and search engine
  - Collaboratively used users' skill to recommend similar results
  - *Technology*: Objective C, MySql, Java

SOFTWARE SKILLS Computer Programming:
- C, C++, Java, Python

Mobile and Social Platforms:
- iPhone, Android, Amazon Mechanical Turk, Facebook API, Twitter API, Neo4j

Version Control and Software Configuration Management:
- DVCS (Git), SVN and others