Anand Soni

+91 8879006489
anand.92.soni@gmail.com
http://www.cse.iitb.ac.in/ãnandsoni

Education

2011–2015 **Bachelor of Technology, Computer Science and Engineering**, *IIT Bombay*, Mumbai, India.

GPA: 7.35/10.0

Professional Experience

May 2014–August 2014 **Google Summer of Code**, *Mlpack : A C++ machine learning library*.

- Improved the existing automatic benchmarking framework by implementing new performance metrics for various classification algorithms. Implemented one vs. all technique to convert multiclass classifiers into binary classifiers
- Developed a Bootstrapping framework in Python and d3.js to rank and compare the performance of various other machine learning libraries like Scikit and Matlab with MLPack

May 2014–July 2014 **Intuit India Product Development Center**, *Bangalore, India*.

- Worked as a part of the Intuit Data Services team for the development of an error analysis and tracking tool for the QuickBooks Desktop care team
- Developed REST based end points using Jersey and Splunk APIs. Integrated the end points with a user interface developed using AngularJS. Mavenized both the projects for automatic deployment
- Ideated and developed QUANT (QuickBooks Analytics Tool) for the small businesses to grow based on their current business, customers and competitors data, during Incubation Week at Intuit IDC, Bangalore. Discussed the idea with Scott Cook, Founder, Intuit
- Offered a full time position (Pre Placement Offer) in recognition of my performance

Research Experience

July 2014–November 2014 **Undergraduate Thesis - I**,
Guide : Prof. Umesh Bellur.

- Worked on the experimental comparison of various optimization techniques to minimize the host VM's downtime and the total migration time for live migration
- Implemented a framework to analyze the rate at which pages get dirty which can be used to dynamically change the migration rate

January 2015–Present **Undergraduate Thesis - II**,
Guide : Prof. Umesh Bellur.

- Worked on the experimental comparison of various optimization techniques to minimize the host VM's downtime and the total migration time for live migration
- Implemented a framework to analyze the rate at which pages get dirty which can be used to dynamically change the migration rate

Key Academic Projects

University of California, Los Angeles

computer science Programming in C++, Digital Design, VHDL, CAD tools, Machine Language (MIPS), Computer Network Fundamentals, Physical Layer of Computer Networks, Programming Languages, Computer Architecture, Algorithms, Complexity Theory, Databases, Operating Systems, Digital Graphics

electrical engineering	Electromagnetics, Semiconductors, Systems and Signals, Circuit Analysis

University of Wisconsin, Madison

computer science	Quantum Computing, Arithmetic Algorithms, Advanced Complexity Theory, Harmonic Analysis of Boolean Functions, Computational Cognitive Science, Bioinformatics, Combinatorics, Artificial Intelligence, Advanced Databases
remote sensing	Environmental Remote Sensing, Digital Image Processing
business	Entrepreneurship and Small Business Management, Venture Creation

Honors and Awards

honor societies	Tau Beta Pi, Eta Kappa Nu, Golden Key, Upsilon Pi Epsilon
dean's list	2 semesters at UCLA
fellowships	Offered Southern California's Provost Ph.D. Fellowship in Electrical Engineering

Miscellaneous Work

Technical Skills

Extremely Proficient With

languages	C, C++, Python, Ruby, JavaScript, Matlab, HTML, CSS, JSON
technologies	Django, Rails, Drupal CMS, MySQL, SQLite, LaTeX, Bash Scripting, Git, Vim, PostgreSQL, jQuery, Bootstrap, Backbone, Windows, Ubuntu & Red Hat Linux, OSX

Have Experience With

languages	PHP, Java, Objective C, Fortran, Perl, Scheme, OCaml, ML, Lisp, Prolog, VHDL, IDL
technologies	Apache, Nginx, DB2, Joomla CMS, Dragonfly CMS, Emacs, Flash, Photoshop, Seashore, HAML, SQL Server, ENVI, Visual Studio, Eclipse, .NET

Extra Curricular Activities

2004–2007 **Ultimate Frisbee Club Team**, *UCLA*, Los Angeles, CA.
Practiced four times a week and traveled across the western united states for between 10 and 12 tournaments each year.

2007–2011 **Ultimate Frisbee Club Teams**, *UW-Madison*, Madison, WI.
Practiced and traveled with three Madison based ultimate frisbee club teams. Played in numerous recreational leagues.

2007–2011 **Engineers Without Borders**, *UW-Madison*, Madison, WI and Orongo, Kenya.
Began a long term irrigation system project to allow the members of Orongo to grow more profitable crops. Started an income generating agroforestry project at a Kenyan Primary School. Built and tested prototype biosand filters in both Kenya and Madison. Built and tested prototype low cost solar cookers in both Kenya and Madison.

2011-present **Ultimate Frisbee Club Teams**, *Ultimate Chicago*, Chicago, IL.
Coached, captained, and played on several teams in recreational leagues.

Other Current Hobbies.
Web Programming, Camping, Hiking, Backpacking, Traveling, Road Trips, Basketball, Piano, Guitar