



Prashant Anantharaman

Curriculum Vitae

Education

- 2015–Present **Masters of Science in Computer Science**, *Dartmouth College*, Hanover, NH, USA.
- 2011–2015 **Bachelor of Engineering in Computer Science and Engineering**, *College of Engineering, Guindy*, Chennai, TN, India, GPA – 8.19/10.

Publications

- 2016 Geethapriya R, Prashant Anantharaman and Saswati Mukherjee : Proactive Resource Provisioning Model for Cloud Federation, *ICDCIT 2016: International Conference on Distributed Computing and Internet Technology*, 15th–18th January, 2016, Bhubaneswar, India.

Research

- 2015 – **Research**, TRUST/PKI LAB, Dartmouth College, Hanover, NH.
- Current Working on addressing Crypto Scalability Issues in Smart Grids.
Advisor : Dr. Sean. W. Smith.
- 2015 **Research**, CLOUD COMPUTING LAB, Dept. of Information Technology, Anna University, Chennai, India.
Proactive Resource Provisioning Model for Cloud Federation. We developed a simulation environment for cloud federation in ruby to investigate the impact of workload prediction based resource provisioning in cloud federation.
Advisor : Dr. Saswati Mukherjee
- 2014 – 2015 **Senior Thesis**, COMPILERS LAB, Dept. of Computer Science and Engineering, Anna University, Chennai, India.
Code Compaction in LLVM IR: In this thesis, we discuss how code compaction can be performed on LLVM's Intermediate Representation. **TCS Best Project Award**. Download report.
Advisor : Dr. Arul Siromoney

Work Experience

- 2015 – **Student Developer**, DIGITAL ARTS, LEADERSHIP, & INNOVATION LAB, Dartmouth College, Hanover, USA.
Working on the backend development for the startup - Vocate on Django and Postgresql.

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2014 **Student Trainee**, SAMSUNG R&D INSTITUTE, Bangalore, India.
Worked on Graph Database based systems using Apache Giraph and Neo4J.

Projects

- Foodroach : Since Dartmouth has a lot of events every day, every meal providing free food, we decided to aggregate information from sources and post it using an android app. I developed the Web API <https://github.com/indiawaaale> . Software(s) used: *Ruby on Rails, cronjobs*
- A free food finding application for Dartmouth
- File Sharing Portal
- Developed a "Social Network for sharing of Files and Videos". The source code to which can be found on <https://github.com/ProjectAlex/laughing-adventure> . Software(s) used: *Ruby on Rails,mysql*
- Khelo, A sports programming language
- Developed an interpreter based language as a "Design of Compilers" project. Software(s) used - *Ruby(Lex and Yacc)*
- Tamil OCR Correction
- This project was funded by "Centre for Technology Development and Transfer, Anna University". Error corrections were made on an OCR'd document. We achieved an accuracy of almost 90%. Software(s) used: *Java,Ruby on Rails, Tesseract OCR*
- Guindy Times Website
- Developed the website of the college news magazine. There is now a mobile application as well, for which the API was designed by me. <http://guindytimes.com>. Software(s) used: *Ruby on Rails, postgresql,Redis*
- Kurukshetra : College Tech Fest Website
- Developed the website of the college tech fest. Developed the website and the API for the android application. <http://archive15.kurukshetra.org.in>. Software(s) used: *Ruby on Rails, mysql,angularjs*

Computer skills

- Programming Languages RUBY, PYTHON,R,C++,C,BASH,JAVA,C#,HTML,CSS,JAVASCRIPT
- Frameworks RUBY ON RAILS,DJANGO, LLVM,APACHE GIRAPH
- Tools GIT,VIM text editor, \LaTeX , OpenOffice
- Databases MYSQL,POSTGRESQL,ORACLE
- Operating Systems GNU/LINUX(ARCHLINUX,UBUNTU,FEDORA),Windows(various)
- GitHub Account <https://github.com/prashantbarca>

Other Experiences

- 2012–2015 Free Software Foundation Tamil Nadu : Activist and active member of the foundation, conducted several sessions and workshops.

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2014–2015 Student Director at CEG Tech Forum : Served as Student Director of CEGs Tech Forum the student run body that organizes Kurukshetra, An International Techno-Management Fest under the patronage of UNESCO

2011–2013 Junior Correspondent at The Guindy Times : Worked for the Campus Magazine

Languages

Tamil **Mothertongue**
English **Advanced**
Hindi **Advanced**
Marathi **Basic**

Basic words and phrases only

Interests

- Soccer
- Table Tennis
- Cooking
- Singing

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