



# 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.

### Senior Thesis

- Title *Code Compaction in LLVM IR*
- Supervisor Dr. Arul Siromoney
- Description In this thesis, we discuss how code compaction can be performed on LLVM's Intermediate Representation. **TCS Best Project Award**. Download report.

### 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.

### Experience

- 2015 – **Research**, TRUST/PKI LAB, Dartmouth College, Hanover, NH.
- Current Working on addressing Crypto Scalability Issues in Smart Grids. Adviser : 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. Download report. Adviser : Dr. Saswati Mukherjee
- 2014 **Student Trainee**, SAMSUNG R&D INSTITUTE, Bangalore, India.
- Worked on Graph Database based systems using Apache Giraph and Neo4J.
- 2013 **Intern**, DANGOTE GROUP, Lagos, Nigeria.
- Worked on a Weigh Bridge integration project.

68 Lebanon St Apt 1A – Hanover, NH - 03755

☎ +1 510 904 8439 • ✉ pa@cs.dartmouth.edu • 📧 prashant.at

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## 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. A free food finding application for Dartmouth. I developed the Web API <https://github.com/indiawaaale> . Software(s) used: *Ruby on Rails, cronjobs*
- 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 and Error 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*

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## Computer skills

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

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## Other Experiences

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

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## Languages

Tamil **Mothertongue**

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English **Advanced**  
Hindi **Advanced**  
Marathi **Basic**

*Basic words and phrases only*

### Interests

- Soccer
- Table Tennis
- Cooking
- Singing

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