

Google™

SUMMER

of

CODE

TENTH

2014

YEAR

melange



Community
Development



Suresh Marru

ComDev PMC Member

* These slides are from ACNA 2014, they will be updated in with latest statistics.

SUMMER

of CODE

Overview

- ❖ Google Summer of Code - GSoC
 - ❖ Goals of the program
 - ❖ Timeline, stipends ...
- ❖ Why should you participate
- ❖ A student's perspective
 - ❖ Guest Speaker – Sachith Withana
- ❖ When is the right time to engage students.
- ❖ How to attract and identify good students
- ❖ Next steps with GSoC 2014 and ASF Process
- ❖ Discussions

Google

Community
Development

TENTH

2014

YEAR



What is Google Summer of Code?

Google Summer of Code is a program designed to encourage university student participation in open source software development.



SUMMER

of

CODE

What are the goals of the program?

- ❖ Inspire young developers to begin participating in open source development
- ❖ Provide students in computer science and related fields the opportunity to do work related to their academic pursuits during the summer
- ❖ Give students more exposure to real-world software development scenarios (e.g. Mailing list etiquette, distributed development, etc.)
- ❖ Get more open source code created and released for the benefit of all
- ❖ Help open source projects identify and bring in new developers and committers

Google



TENTH

2014

YEAR

SUMMER

of

CODE

How does GSoC work?

- ❖ Program genesis: “flip bits, not burgers” during summer holidays
- ❖ Exposure to real-world software development
- ❖ Students submit project proposals to the organizations, who select student(s) and pair with mentor(s) from the org
- ❖ Students must execute milestones laid out in their accepted project proposal
- ❖ Program stipend allows students to concentrate on OSS development

Google



TENTH

2014

YEAR

SUMMER

of

CODE

Google Summer of Code timeline

- ❖ 3 - 14 February, 2014: Google begins accepting applications from open source projects.
- ❖ 24 February, 2014: List of accepted organizations announced on google-melange.com.
- ❖ 10 – 21 March, 2014: Student application period.
- ❖ 21 April, 2014: Accepted students announced on google-melange.com.
- ❖ 19 May, 2014: Students begin coding.
- ❖ 27 June, 2014: Mid-term evaluation deadline.
- ❖ 22 August, 2014: Final evaluation deadline.

Google

Community
Development



TENTH

2014

YEAR

SUMMER

of

CODE

Stipends

- ❖ Google will provide a stipend of 6000 USD per accepted student developer, of which 5500 USD goes to the student and 500 USD goes to the mentoring organization.
- ❖ Accepted students in good standing with their mentoring organizations will receive 500 USD shortly after coding begins.
- ❖ Students who pass their mid-term evaluations will receive 2250 USD shortly after the mid-term evaluations.
- ❖ Students who receive passing final evaluations will receive 2750 USD shortly after the final evaluation deadline.

Google



TENTH

2014

YEAR

SUMMER

of

CODE

Creates a Win-Win situation

- ❖ Organizations gain:
 - ❖ New contributors and Code
 - ❖ Global Exposure
- ❖ What Students gain:
 - ❖ Skills
 - ❖ Real World Experience
 - ❖ Sample Code
 - ❖ Contacts
 - ❖ Career Building – Recruiters looking for them rather than other way around

Google

Community
Development



TENTH

2014

YEAR



GSoC: A Student Perspective

Sachith Withana
University of Moratuwa



SUMMER

of CODE

First hand open source, open community experience
the transition from theory to the real-world
recognition as a GSoc'er
code is out there in a real world project

Why do we prefer GSoc over summer Internships

Explore a preferred field, involve in, learn and contribute to that field

Standard

Google



TENTH
2014
YEAR

SUMMER

of

CODE

Challenges to engage with Apache Projects

- ❖ Lack of project-specific knowledge
 - ❖ Example: Apache Airavata: Distribution Systems knowledge
- ❖ Many projects lack good documentation and introductory resources
- ❖ Balancing time in a busy academic schedule

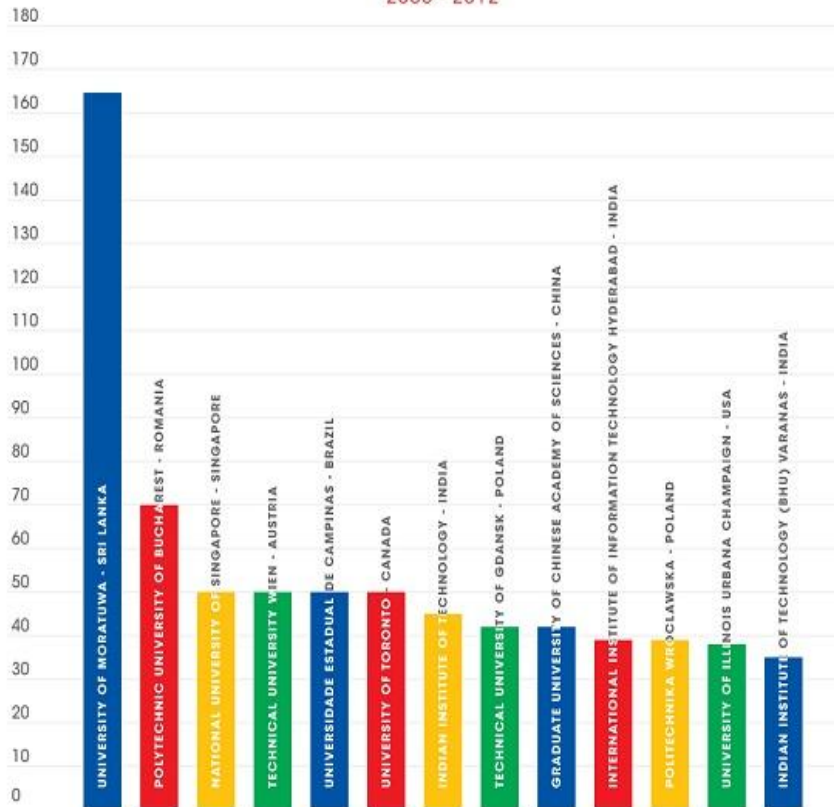


Challenge Accepted ...

Google Summer of Code

Total Number of Awards

2005 - 2012



Rank	School	Country	# of Accepted Students in 2013	# of Students in 2012
1	University of Moratuwa	Sri Lanka	39	29
2	International Institute of Information Technology - Hyderabad	India	29	16
3	Polytechnic University of Bucharest	Romania	25	21
4	Birla Institute of Technology and Science, Pilani (BITS Pilani)	India	19	12
5	Dhirubhai Ambani Institute of Information and Communication Technology	India	17	17
6	Birla Institute of Technology and Science Pilani, Goa Campus / BITS - Pilani - K.K. Birla Goa Campus	India	16	14
7	National University of Singapore	Singapore	15	21
8	Vienna University of Technology	Austria	13	10
9	Beijing (Peking) University	China	12	8
10	Indian Institute of Technology, Kharagpur	India	11	10

SUMMER

of

CODE

From Challenges to Solutions

- ❖ Lack of documentation?
 - ❖ add documentation, fix them.
- ❖ It's a HUGE learning phase
- ❖ No-time in a busy schedule?
 - ❖ that's life, make way for your future

SUMMER

of

CODE

Solutions Contd..

- ❖ Domain-specific barrier
 - ❖ start few months before the GSoC application submission period
- ❖ Interact with the communities, it's OPEN TO ANYONE
- ❖ University of Moratuwa way ..
 - ❖ conduct workshops
 - ❖ help students conquer the barrier



Further contributions

Final Year project

approx: 8 months long
4 students per group
research-oriented
concrete contributions to project

Google



SUMMER

of

CODE

Questions?

Turning back to Suresh...

Google



TENTH
2014
YEAR



What students look for?

- ❖ Engage with project itself (not just the mentor).
- ❖ Is the project welcoming and appreciative of their contributions?
- ❖ Should they invest extra effort or just put in enough to secure the stipend.
 - ❖ They need to be motivated to contribute to the project above and beyond GSoC.

SUMMER

of

CODE

Motivate community Aspects

- Provide opportunity to play with other open source tools
- Let them Experiment
- Balance Learn & Engage



Community

Development



Google

TENTH

2014

YEAR



Emphasize the need for speaking up early and often

SUMMER

of

CODE

Apache in GSoC

Participating in GSoC for the tenth year
in a row (since its inception in 2005)

Number of projects in past 4 years

2010: 44

2011: 40

2012: 41

2013: 51

** Thanks to Ulrich Stärk for these statistics*

Google



TENTH
2014
YEAR

SUMMER

of

CODE

Apache ComDev

ComDev PMC co-ordinates
GSoC engaging all Apache
Projects.

ASF is one of the biggest
participating orgs in GSoC
~75 mentors from different
projects each year

** Thanks to Ulrich Stärk for these statistics*

Google



TENTH
2014
YEAR



Next Steps in 2014

We are almost finished with proposal ranking
Internally PMC's are due on April 11th
Due with Google between April 15 and April 18.
April 21: announcement of accepted projects

** Thanks to Ulrich Stärk for these statistics*

Google



SUMMER

of

CODE

Executing the projects
may 19: start of coding
june 27: midterm evaluations
due
august 11/18 suggested/firm
pencil down date
august 22: final evaluations
due
august 25: end of gsoc

Google



TENTH
2014
YEAR

SUMMER

of

CODE

Key Take Away's

- ❖ Free Pens – speak up now.
- ❖ Spend time to create starter tasks.
- ❖ Be welcoming to students and encourage them by “rewards”.
- ❖ Look for both direct and in-direct benefits.
 - ❖ Improved documentation
 - ❖ Hire potential students in our day jobs
 - ❖ New committers