Google Summer of Code

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Overview

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What is GSoC?

- Google Summer of Code (GSoC) is an online, international program that gives students the opportunity to participate in free software development during summer break
- Working with a free software organisation
- Working from home
- You have a mentor

Students - Why participate?

- Work as an Software Engineer.
- Experience a complex, real world project.
- Personal experienced mentor for you.
- Build a resume with a well known organisation.
- Go to an international conference.
- More than good stipend of $3600

Conditions for students

- At least 18 years old.
- Must be enrolled in an accredited institution like a university, PhD or undergraduate programs.
- Must be eligible to work.

Timeline

- Mar 25 – Apr 09 – Student application
- May 6 – Accepted students announced
- May 6 – May 27 – Bonding period
- May 27 – Aug 19 – Working
- Sep 03 – Results Announced

GSoC 2018

- 201 organizations participated.
- 5000 students from 72 countries sent applications.
- 1318 students got accepted.

Organisations

The process

- Go to http://summerofcode.withgoogle.com
- Choose potential organization
- Choose a project and contribute
- Get in touch with mentors
- Apply at http://summerofcode.withgoogle.com
- Work
- ...
- Profit!

Alternative - Red Hat Internships

- 1 year internship
- All FOSS projects
- Possibility to get hired full time
- Application starts around Open House (**Come!**)
- A nice project coming is a new OS similar to Chrome OS

Info at [Red Hat Open House](#)
17th April

Research Projects at GSoC

- GSoC supports also academic tools
  - open software + "potentially strong" user base
  - scientific computation, robotics, verification, AI

- my experience – PRISM model checker
  - verification and performance analysis of systems with random and probabilistic behaviour
  - Oxford and Birmingham University (since 2001)
  - 100+ publications and 70K downloads
  - mentor (2014, 2016) within my postdoc at Oxford
  - one student got a PhD position in Canada and one got a position at Google

PRISM at GSoC

- participated in 2013, 2014 and 2016 with 2, 8 and 5 funded projects, respectively
- every year PRISM offered 10+ projects and received around 50 student's applications
  - from purely engineering project to research topics
  - some projects led to strong publications
- all projects have been successfully finished
  - careful admission process
  - communication-intensive mentoring with week reports and detailed mid-term evaluations

PRISM at GSoC – My Projects

1) Refactoring and optimisation of core computational kernels
    - engineering project aiming at performance improvements
    - 3x speedup + 6x memory footprint reduction
    - student got a Phd position in Canada

2) Adding new functionality - Parameter synthesis
    - design and implementation of a new method
    - Dean's award for the exceptional master thesis
    - led to two strong publications
    - student got a position at Google

How To Be Successful in GSoC?
Be Proactive!

- Admission process
  - Demonstrate your ability to grasp the key concepts
  - Don't hesitate to contact the mentors
  - Show your communication skills, technical background, and out-of-the-box thinking

- Working on your project
  - Be sure that the mentor follows your work
  - Try to overcome obstacles, but don't get stuck
  - Communication with your mentor is essential

FAQ

- Am I smart enough?
- Is my English good enough?
- Is there going to be a project for me?
- Should I left my current half time job?
- The timeline overlaps my university, is it fine?
- What mentors look for to choose an student?
- Can I fail?
- Is it important enough for me even if I plan to work on something else afterwards?
- Is it important that I used the project before?

GNOME

GNOME – Used and developed

GNOME

- Apps – File manager, Photos, Calendar, etc.
- Libraries – Gtk+, libretro (games emulator), etc.
- Tools – Pitivi (video editor), GIMP, Builder (IDE)

Contact

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Slides

shorturl.at/hjnzP

Thank you!