Annual Report

Web and Coding Club, IIT Bombay

March 13, 2015

Vision

We of the Web and Coding Club aim to promote programming as a hobby within the institute and improve the level of programming practiced by the students.

We're a group of programmers and enthusiasts looking to ease the way for newcomers into the world of programming, and to keep alive the coding community in IIT Bombay.

Part I

Software Development

Our largest track is the software development track. We hold workshops, talks, and hackathons to inculcate and promote various skills pertaining to software development.

Scratch Weekend

To introduce freshmen to programming, we held a workshop on Scratch, followed by a hackathon. Scratch is a fun introduction to programming where students can create games and other things without writing any code. We had an overwhelming turnout for this one, and some rather nice games and animations were made as a result. Students felt more comfortable with programming as a result.

Google Cloud Workshop

In collaboration with the Mumbai Google Developer Group, we held a workshop on various technologies for developing on the cloud.

I/O Extended

A social event to bring the coding community together, we held a screening of the Google I/O conference, with some local talks beforehand and discussion afterwards.

Hackathon

We are holding a hackathon this week, with mentorship for freshmen. The goal is to get the programmer community together and to provide an environment for new students to get involved, learn new things, and make awesome applications. This is in collaboration with Google Developer Group and Facebook.

Freshman workshops

- We held a very successful Web design workshop (followed by a webpage building competition) that taught basic HTML and CSS from the ground up.
- We held an introductory session to Python which had a great turnout and response. After the session there were informal discussions.

Talks

We have had talks on the following software development subjects:

- Haskell (mini-workshop)
- Rust
- Android Wear
- Material Design

We also have had a couple of informal discussion sessions.

Part II

Competitive Coding

The goal of these events is to improve the existing community of those interested in algorithm-based competitive coding. Eventually we hope for more teams to make it to the ACM ICPC world finals, amongst other competitions.

Talks

- An introductory talk for those wishing to get involved
- A talk by a past ICPC finalist on his journey to the top
- A colloquium by the tech lead of CodeChef which sparked interest and taught some tips & tricks.

Competitions

We held a couple of local competitions to hone the skills of interested students. We also hosted the local instance of Code Uncode 2014.

Part III

Open Source

Whilst IIT Bombay has a lot of programmers, from the student community very few get involved in open source projects. These projects are a great way to get some real world experience, interact with great people, and make an impact.

This year we tried to start and grow a culture of contributions to open source.

Summer of Code

We held a talk on getting involved in open source aimed specifically at those intending to join the "Summer of Code" program which lets students spend a summer working on a nice mentored project in an open source organization. We later held one which focused on Summer of Code specifics like writing proposals, including general Q& A.

Additionally, we have been privately mentoring and helping students in their journet into open source.

Community events

- We helped AAQ, FOSSEE, and the Mozilla community organize a workshop on Firefox OS appmaking, where some interesting apps were created.
- We provided minor infrastructure and a speaker to MiniDebConf Mumbai, held by the Debian community in Mumbai.