



**Shanbhag Anil Atmanand**  
**Computer Science & Engineering**  
**Indian Institute of Technology, Bombay**  
**Specialization: None**

**100050082**  
**UG Third Year (B.Tech.)**  
**Male**  
**DOB: 11-04-1993**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	9.50
Intermediate/+2	Karnataka State Board	VVS Sardar Patel PU College	2010	92.33
Matriculation	CBSE	Venkat International Public School	2008	92.80

## SCHOLASTIC ACHIEVEMENTS

- Pursuing **Minor in Statistics** and **Honours** in Computer Science
- Currently ranked **5th** in the department (out of 89 students)
- Secured **38th** position in **IIT Joint Entrance Exam 2010** (out of more than 400,000 students)
- Secured **1st** position in **Karnataka Common Entrance Test(KCET) 2010**. Feliciated by Education Minister, Govt of Karnataka for the same. Secured 3rd position in COMED-K
- Awarded **Kishore Vaigyanik Protsahan Yojana (KVPY)** fellowship for the period 2009-2010
- Placed in top 1% in *Indian National Physics Olympiad, Indian National Chemistry Olympiad* and *Indian National Physics Olympiad*.

## WORK AND RESEARCH EXPERIENCE

**RDF Provisioning for the Internet of Things** May-July, 2012  
*Internship, TU-Braunschweig, Germany*

- Worked on bringing wireless sensor nodes into the IoT by having embedded tuplestore for RDF data storage on the nodes and interacting with outside world via CoAP.
- Implemented CoAP protocol for sensor nodes in Wiselib and integrated the setup as a backend into Smart Service Proxy of the EU SpitFire Project.

**Co-Founder and Core Developer, recharge123.com** 2011 - 2012

- Recharge123 is a online recharge portal which provides a unified interface for mobile and DTH recharges.
- The portal targeted at merchants had a turnover of over INR 10 million in the first year.

**Dashed Border Implementation** May-July, 2011  
*Student, Google Summer of Code; Organisation: Mozilla*

- Improve border corner rendering and interaction of dashed style with other styles.
- Created and implemented variable gap length rendering logic for rendering dashed borders allowing smooth corner transitions. Prototyping done in python followed by patching the source code.

## POSITIONS OF RESPONSIBILITY

**Manager, Web and Coding Club, IIT Bombay** 2012

- Manager of one of the largest student clubs with over 1200 members. Organize sessions, competitions and workshops on different programming topics.
- Managed over the 30 projects related to club under Institute Technical Summer Projects.
- Promoting coding as a hobby and building a hacking culture among developers in the institute.

**Institute Cultural Web Nominee, Institute Cultural Council** 2011 - 2012

- Part of the 11 member team responsible for organising cultural activities on IITB campus.
- Redesigned the Gymkhana Cultural website; new initiatives included online noticeboard to give over 6000 students daily cultural updates.

## Teaching Assistant, PH 105

Spring 2012

- Selected as TA for first year physics course. Work involves taking tutorials for class of 30 students, assist in conduct of examination and evaluating the same.

## ACADEMIC PROJECTS

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### Titanis

Autumn 2011

- A small scale web search engine implementation with PageRank algorithm.
- Used concepts of reverse index and hashing to get fast results on a dump size of 1GB.
- Created a web interface in web.py framework by creating python bindings for the C++ core.

### PIPE (PIPE Is a Photo Editor)

Spring 2011

- Created a cross-platform GUI-based raster graphics editor with scripting facility in PLT Scheme.
- Implemented features like Gaussian blur, automatic selective color transfer and image channel histogram manipulation.

### Serpent Mania

Autumn 2010

- Led a group of 20 students to develop a multilevel snake game using C++.
- Implemented levels, scoreboard and multiplayer features.

## CODING AND DEVELOPMENT

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### Yahoo! HackU '12

- Won the competition for developing a utility app *DriveStack*, amongst over 40 entries.
- Unified various cloud storage services into one easing management of storage.

### Digit Chrome Challenge '11

- One of the winning entries at the competition for developing app *Speech Recognizer*.
- This app uses the TTS feature in chrome to create a useful powerful tool to use voice to do the normal typing jobs

### Miscellaneous

- **Committer** for **Wiselib**, a generic algorithms library for heterogeneous, distributed, embedded systems.
- Developed Chrome extensions which in all received **35K+** users.

## EXTRA-CURRICULAR ACTIVITIES

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- Created **Singing Electric Arc** (plasma speaker) as a part of **Technovation** . The device used modulated electric arcs to play music.
- Designed site of **LiveWire Mood Indigo**. Worked as Coordinator for MoodIndigo'11 Creatives team.
- Secured **2nd** position in the *Arduino Coding Contest* held by Electronics Club, IITB.
- Mentored three teams doing their projects as part of Institute Technical Summer Projects ( ITSP ).
- Gave talk titled " *Using VIM as C++ IDE*" at Using VI Advanced Session.
- Awarded **NSS Special Mention** for contribution towards social activities. Facilitated cloth donation drive and organised rubix cube solving workshop at campus school for the under privileged students.