

# Shivang

3rd Year Undergraduate,  
Dept. of Aerospace Engineering,  
Indian Institute of Technology, Kanpur

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## ACADEMIC DETAILS

Year	Degree/Certificate	Institute/School, City	CGPA/%
2014-present	B.Tech, Aerospace Engineering	Indian Institute of Technology, Kanpur	5.9/10
2013	Class XII, AISSCE	Devasthali Vidyapeeth, Ballia	84.5
2011	Class X, AISSC	CCS, Chapra	9.4

## TECHNICAL SKILLS

- **Languages:** JAVA, C, C++, Python, Bash
- **Android Development:** Java, XML, Android Studio, Eclipse, Xamarin Studio
- **Web Development:** HTML, CSS, PHP, bootstrap, jQuery, JavaScript, C#, Angular JS, Adobe Muse
- **Design and Modelling Software:** Affinity Designer, Adobe Photoshop, Adobe AfterEffect, Autodesk Inventor, Autodesk AutoCAD, Autodesk Maya, Solid Works, Google sketch-up
- **Office/Document:** Pages, Numbers, Keynotes, Microsoft Office, Open Office, LaTeX, Trello, Slack
- **Tools:** Vim, Git, , Adobe Photoshop
- **Operating System:** Mac OS X, Windows, Ubuntu, Cent OS, Kali, Mint, Arch

## INTERNSHIP PROJECTS

### Adcount Technology Pvt Ltd ([adurcup.com](http://adurcup.com))

- **Project 1:** *Adurcup Seller App* (Supervisor: Nitin Prakash , Dec'15-Jan'16)
  - Designed and developed materialistic app front-end on android studio using Android SDK (JAVA and XML framework) and server-side API on Slim (PHP framework)
  - Used support design libraries for materialistic design and backward compatibility upto SDK level-15 (95% of total available android devices), Picasso and Volley libraries for http request handling
  - Created full fledged app equipped with feature like support messaging, Product listing, Order Handling, Stock Maintenance, Payment Tracking, etc., which reduced transaction time by at least 200 % and decreaded load on operations team upto 4 times
- **Project 2:** *Adurcup Remote App and Hologram Projection App* (Supervisor: Harshit Mittal , Feb, 2016)
  - Hologram Projection App
    - \* Researched on available Raspberry Pi compatible software and libraries, designed and developed laterally inverted (hardware constraint) materialistic app on Android Studio
    - \* Integrated App with Google Cloud Messaging(GCM) and augmented broadcast receiver to act as a signal receiver
  - Adurcup Remote App
    - \* Designed and developed realistic front-end Android app and integrated it with GCM server SDK
    - \* Developed a python script which could be hosted locally and act like on-off switch of app
- **Project 3:** *Adurcup Publishers App* (Supervisor: Harshit Mittal , May-Jun, 2016)
  - Designed and developed Android app front-end, implemented with geotagged image reporting using Android native libraries and server-side API on Slim (PHP framework)
  - Integreted app with Google Firebase Cloud Messagin(FCM), Amazon S3 SDK for file uploading and Facebook SDK to app link
  - Created app to monitor and track verified uploaded images and deliver credit accordingly
- **Project 4:** *Adurcup Vendor Apps (Pest-control App, Disposable Vendor App, Wifi Vendor App)* (Supervisor: Nitin Prakash , Jul'16-current)
  - Analyse Intuitiveness and scope of functionality
  - Design and develop Android app front-end on Android Studio and server-side API on Slim (PHP framework) using REST API
  - Gather and implement relevant library and dependencies

## TECH PROJECT MENTORING

### Programming Club IITK

- **Project :** *WiFi Management System*

(May-Jun, 2016)

- \* *Team:* Assisted 5 first year undergrad with non-CSE background
- \* *Project Highlights:*
  - *WiFi router firmware:* Used relevant library and dependencies like nodogsplash captive portal and built a WiFi router firmware using Open-wrt source to extract as much data as possible
  - *Web App cum Dynamic Dashboard:* Developed dynamic dashboard using javascript, nodeJS, bootstrap and used Django(Python framework) to adhere firmware and database
- \* Supervised Best P-Club Summer Project 2016

## POSITIONS OF RESPONSIBILITY

- Member of Hall Executive Committee, Hall 2

(Year-2015)

- \* Developed hall website using HTML, CSS and Javascript
- \* Assisted and facilitated fellow student to follow up interest in the field of tech and culture
- \* Organised and headed several intra and inter hall events like fine art nights, H2PL, H2FL, Fresher's Inferno, Takneek

## EXTRA-CURRICULAR ACTIVITIES

- *Manoeuvre, Techriti'15(Techfest IIT Kanpur)*

(March 2015)

- \* Made 2 bots that can travel, detect color, lift load and work complementary, using precise light sensors and Atmega chips, along with the team of 5 members in 2 weeks

- *Robotricks, Takneek'14(Inter-college Techfest IIT Kanpur)*

(Aug 2015)

- \* Designed and built bot that can lift load, push piston and climb incline, completed the bot in 2 weeks along with a team of 5 members

- *Tabla Playing*

- \* Diploma in Tabla
- \* Performed on Hall talent Night'14
- \* Performed on Fresher's Night

## RELEVANT COURSES

- |   |   |
|---|---|
| ○ <b>ESC101:</b> Fundamental of Computing               | ○ <b>MTH101:</b> Mathematics I                        |
| ○ <b>BSE221:</b> Organ System, Physiology Anatomy       | ○ <b>AE201:</b> Introduction to Aerospace Engineering |
| ○ <b>ESO203:</b> Mechanics of Solids                    | ○ <b>AE211:</b> Experiments in Aerospace Engineering  |
| ○ <b>ESO207:</b> Introduction to Electrical Engineering | ○ <b>ECO101:</b> Introduction to Economics            |