

SHIVANG

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

Git repo: <https://github.com/kshivang>
Email-id : kshivang@iitk.ac.in
Mobile No.: 7755-057-944

TECHNICAL SKILLS

- **Languages/Tools:** JAVA, C, C++, Python, Bash, Vim, Git, zsh, Gnuplot
- **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
- **Operating System:** Mac OS X, Windows, Ubuntu, Cent OS, Kali, Mint, Arch

INTERNSHIP PROJECTS

Adcount Technology Pvt Ltd (adurcup.com)

- **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 decreased load on operations team upto 4 times
- **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
- **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)
 - Integrated app with Google Firebase Cloud Messaging(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
- **Adurcup Vendor Apps (Pest-control App, Disposable Vendor App, Wifi Vendor App)** (Jul'16-Aug'16)
 - 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

TAI Pvt Ltd (tai.school)

- **TAI Student App** (Supervisor: S. Kranthi , Oct'16-Nov'16)
 - Designed and developed front-end on android studio using Android SDK (JAVA and XML framework)
 - Used Youtube API for video streaming, Google Firebase Realtime Database for better scalability and security
- **TAI Teacher App** (Supervisor: S. Kranthi , Dec'15-Jan'16)
 - Designed and developed simple intuitive UI using android graphics library
 - Used machine learning based back-end for analytics and dynamic graphs.

TECH PROJECT MENTORING

Programming Club IITK

• 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

• Self Project: Manager for Firebase Database, Open Source

(Nov 2016)

- Built productivity app for developers to handle firebase database directly from their android devices
- Developed efficient JSON to Firebase parser and Firebase to JSON parser in JAVA
- Reached 100 downloads in first week of production with perfect rating

• Hackathon, GDG'16(IIT Kanpur)

(Oct 2016)

- Campus Ordering System: Built two android app and a web back-end in one and half day along with a partner
- Made business plan and presentation for our product

• Tech Blog : Androidonism, Open Source

(Feb 2016)

- Web Progressive Tech Blog built with Google Polymer

• Rainbow Shots, Open Source

(Nov 2016)

- Android arcade thumb game made with canvas library with infinite level of difficulty
- Developed small game engine in java to sustain gameplay

• Manoeuvre, Techriti'15(Techfest IIT Kanpur)

(Mar 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 (Musical Instrument) Playing

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