# SHASHANK BHUSHAN

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## EDUCATION

| Institute | Degree | Year |
|---|---|---|
| Indian Institute of Technology Kanpur | B.Tech. Mechanical Engineering | 2017 |
| Shiv Jyoti Kota | All India Senior School Certificate Examination (CBSE) | 2012 |
| Don Bosco Academy Patna | Indian Certificate of Secondary Education (ICSE) | 2010 |

## PROFESSIONAL EXPERIENCE

**ANDROID DEVELOPER**  | HAIKUJAM TECHNOLOGY PVT LTD                                    *(July 2017 to present)*
- **Re-architected** the complete app with **MVP framework** standards, incorporating the use of **Rx-Java, Dagger, and Retrofit**
- Maintained a **TDD** approach throughout, implemented unit and end-to-end testing using **Mockito and Expresso** library
- Added In-app spell suggestions for misspelled and profane words with a primary focus on providing smooth UX
- Optimized the app to have good performance in **low bandwidth network**, a **low start time** and very **less apk siz**
- Added **analytics event** throughout the app to monitor **user drop-offs, engagement, API failures, crashes, and A/B test**
- Implemented **reusable components** in-app to made **development cycle faster** and **implementation of test case** easy
- Oversaw **Branch deeplink**, in-app and push notification handler throughout the app while **maintaining navigation stack**
- Initiated **'Hackday'** to learn updated tech and growth channel also placed a **code review system** hence improving code quality
- Made In-app purchase classes to provide payment via Google pay and razorpay API.

**ANDROID DEVELOPER**  | SIDE PROJECT WITH COLD BREW TECHENOLOGY                         *(Oct 2018 to Dec 2018)*
- Used **MVVM framework** with a **clean modular** architecture implementation
- Implemented a heavy use of **Dagger 2.1** a dependency injection tool to power all the components across different module
- Crrated seperate module for **video playback** functionality insode app using **ExoPlayer** and **YouTubeAndroidAPI** library
- Implemented multimedia **file upload** from device and cloud storage for all Android APIs and a **background service** to download

**SOFTWARE DEVELOPER INTERN**  | HACKERRANK (INTERVIEWSTREET TECH PVT LTD)                 *(May 2016 to Jul 2016)*
- **Re-architected** the android app following **MVC framework** and ingeniously resolved 'Loss of State Error' in android life cycle
- Wrote **JUnit tests** using **Espresso framework** to test different apps with a specifically framed problem statement
- Implemented over a 100 snippets including  **graph, search** and **sort algorithm** in Swift language latest version
- Worked on android **cloud emulator** to run JUnit test in **Ruby on Rails** and implemented version control functionality
- Augmented the online interviewing editor (CodePair) with a **new theme** and improved the supported **jQuery functions**

**GOOGLE TRANSPARENCY**  | A GOOGLE-IIT PILOT PROJECT UNDER DR. KOUMUDI PATIL , PROFESSOR IIT KANPUR   *(Aug 2015 to Nov 2015)*
- Maintained a **strict deadline** while building an app to facilitate transparency of government construction projects in India
- Integrated **Google Maps** with the android app and built features over Google Maps for **demarking roads and areas**
- Made API documentation on **Swagger**, integrated **crash analytics** tool with the app to monitor user behavior
- **Graphically represented** the data collected through the app and used **dynamic layout** for showing properties of a project

## ENTREPRENEURSHIP

**BELLO**   - ACADEMICS MANAGEMENT APP FOR EDUCATIONAL INSTITUTES
- **Conceptualized an idea** and developed **UI/UX** for features like **share files**, **course updates**, **discuss** with multi-device support
- Integrated with **GCM** for having a quick **notification system** to alert a user of any relevant activity on the app
- Awarded **2nd rank at Google Hackathon** among 40 projects for **excellent code quality** and use of **self-written library**

## PROJECTS

**UNIVERSITY OF CALIFORNIA LOS ANGELES**   | PROJECT UNDER DR SEAN D. YOUNG, PROFESSOR UCLA    *(Jan 2016 to Apr 2016)*
- Collected voice data, processed it with Google **speech recognition** library and feed it to a server using **REST APIs**
- Deployed server to **Amazon web services** made using **MEAN Stack** and further retrieved information for the research part
- Collaborated remotely while maintaning a **strict timeline** for project completion adhering to strict deadlines

**TA202**  | MANUFACTURING PROCESS PROJECT UNDER PROF. V.K. JAIN                          *(Jan 2015 to Apr 2015)*
- Realized Whitworth mechanism and 4R linkage mechanism **optimized in MATLAB** to get the desired path trajectory
- Devised a **completely mechanical and automatic machine**, powered by rotation of its wheels in a paddy field
- Designed and developed a working prototype of the machine and awarded the **Best Project among 60 other projects**

**AURAPLAY**   - AN ARTICULATED MECHANICAL ROBOTIC ARM | ELECTRONICS CLUB PROJECT             *(May 2014 to Jun 2014)*
- Interfaced a Raspberry Pi with a projector and created a **mobile fluid display** controllable through a mechanical arm
- Implemented algorithms for **screen tracking and mouse handling** through laser and made a doodling game using **Python**

## TECHNICAL SKILLS

- **Programming languages**    :  Kotlin, JavaScript, Java, Python, C/C++, Swift, Ruby
- **Mobile and web dev tools**  :  Android Studio, Xcode, Eclipse, HTML, CSS, jQuery, CoffeeScript, Backbone.js, MVP, MVVM
- **Backend tools**              :  Node.js, Ruby on Rails, Django, MongoDB, MySQL, PHP
- **Utilities & softwares**      :  Git, Bash, LaTeX, Postman, Branch Deeplink, Amplitude, CrashAnalytics, Firebase, Lokalise

## LEADERSHIP SKILLS

**CULTURAL SECRETARY**   | HALL EXECUTIVE COMMITTEE, HALL 3                                  *(Jul 2014 to Jun 2015)*
- Elected as the cultural secretary in an electorate of more than **500 undergraduate** residents of the hall
- Organized and conducted Hall Day, the annual hostel banquet with a budget of **Rs 3 lakhs**, which was attended by **1100 people**
- Galaxy'15: Won the IITK inter-hall cultural festival for the **7th time in a row**, leading a contingent of around **1000 students**