

# Subham Goyal

<https://github.com/subhamg>

Email : [goyalsubham.iitk@gmail.com](mailto:goyalsubham.iitk@gmail.com), [subhamg@iitk.ac.in](mailto:subhamg@iitk.ac.in)

Mobile : +91-8948340341, 8887042140

## EDUCATION

---

- **Indian Institute of Technology, Kanpur** 2018 (Expected)  
*B.Tech in Material Science and Engineering* Undergraduate CGPA: 5.9
- **Green Wood Public School, Sitarganj** 1997-2012  
*All India Senior and Senior Secondary School Certificate (CBSE)* XII std : 92%, X std : 97.8%

## SCHOLASTIC ACHIEVEMENTS

---

- Secured certificate for developing windows app and completing the **Code.fun.do** student hackathon organized by Microsoft at IIT Kanpur on Jan 30-Feb 1, 2015.
- Secured **All India Rank 6 ph.** in Join Entrance Examination'12 among 5 lakh candidates
- Secured **All State Rank 3** in first round of **10th National Science Olympiad** with a percentile score of 99.08.
- Secured **All India Rank 1053** in second round of **10th National Science Olympiad**.

## WORK EXPERIENCE

---

- **New York Office, IIT Kanpur** (Kanpur, UP)  
*Front End Developer and UX/UI Designer* May 2016 - Present
  - Summer Internship continued as a volunteer and peer mentor
  - Continuous implementation and integration of new features on a scalable microservice-based web application with an extensive technology stack.
  - Implemented an Angular application as per the Redux architecture (NgRx) for easy extensibility and modularity.
  - Implemented Reactions, Hover-card, Global trends, Multi-thread comment & Prose-Mirror into an existing App.
  - Created and usability tested wireframes, UX flows, motion design, prototypes & visual polish of an entire application using Photoshop, Illustrator, Adobe XD etc.
  - Researched, designed and validated workflows & interfaces through iterations for a more approachable & valuable experience.
- **Aeon Logiciel** (Noida, UP)  
*Full Stack Developer* Dec 2017
  - Worked to build and establish an e-commerce platform using the Laravel framework.
  - Implemented RestFul API, OAuth authentication & authorization between multiple systems, Payment portal, etc.
- **Tourepedia** (Kanpur, UP)  
*UX/UI Designer* Nov 2013 - Dec 2013
  - Developed user-centred design methodology, direct overall Web UI design and usability strategies for tourepedia.com online shopping Web application.
  - Designed marketing materials like advertisements, brochures, handouts, flyers and online graphics etc.
  - Collaborated on user experience planning with a lead experience architect.
  - Prototyped responsive HTML5 and CSS3 prototypes with the Bootstrap 3 framework.
  - Created wireframes, mock-ups, task flows, logos, icons and UI specifications as needed for other applications using Adobe Illustrator and Photoshop software.
- **Localities** (Kanpur, UP)  
*Freelance, Full Stack Developer*
  - Worked on a web application to easily share data between different moderators using the MEAN stack.
  - Created RestFul API using NodeJs and Express Framework.
  - Designed and Developed many single page web application from scratch as a freelancer.
- **Jan Jagriti Seva Samiti- NGO** (Rudrapur, UK)  
*Social Worker* Nov 2013 - Dec 2013
  - Participated in Awareness Camp for blind patient, training programs and other events as appropriate and needed.
  - Completed timely documentation, and actively participated in team meetings.
  - Collaborated with hospice medical staff to establish and modify, when necessary, client focused hospice services.
  - Developed and maintained contact with appropriate community agencies and services in order to promote interagency cooperation and to facilitate related referrals.

## MAJOR POSITION OF RESPONSIBILITY

---

- **Udghosh'17** (Inter-Collegiate Sports Festival)  
*Core Team Member - Head Web and Android* Apr 2017 - Present
  - Designed and Developed the festivals portal responsible for the registration of more than 2300 participants using **PHP** and **SQL**.
  - Developed the official website for the sports festival Udghosh of IIT Kanpur using **HTML, CSS, Java Script**.
  - Managing various events and activities and playing an important role in taking decisions regarding the festival
  - Working on native **android** development to create Udghosh android application.
  - Integrated **Firebase** to Store and sync data in realtime across all connected clients.
  - Collaborated with YouWeCan to spread awareness about Cancer and raised a fund of 1 Million
  - Organized Cyclothon witnessing Chief Guest **Nuzhat Parween**.
- **Inter IIT Sports Meet 2016**  
*Core Team Member - Head Web and Android* May 2016 - Dec 2016
  - Spearheaded a 2-tier team of web developers and worked closely with other members to develop detailed specifications of the event.
  - Involved in Responsive Web designing and development using **HTML, CSS3, JavaScript, jQuery** etc.
  - Involved in **database design** and writing queries for many modules using **MySQL**.
  - Developed internal event web applications for live updates in PHP. Designed imaginative and colorful website.
  - Designed and developed an **Android app** with an intuitive design and real time sync to keep one updated.
  - Implemented Fragments, List Views, and material design principles to create a great user experience
  - Associated with Raktarpan to organize a Blood Donation and Mini- Health Checkup Camp for IIT Kanpur.
  - Connected with Impact Run and Flush Mob to propel Pan IIT Fitness and Sanitation Drives.
- **Udghosh'15** ( Inter-Collegiate Sports Festival)  
*Core Team Member - Head Design* Apr 2015 - Oct 2015
  - Led a 2-tier Design Team for successful conduction of Festival with more than 1800 participants Nationwide.
  - Conceptualised the idea for a Countdown to the Festival, a new logo, branding avenues and doodle for Udghosh.
  - Coordinated with 20 heads of their respective cells and met their deadline to release the merchandise design.
  - Used typography, imagery and creative concepts to give Udghosh a visual feast.
  - Managed promotions of Festival over mass media comprising Dainik Jagran, Facebook & Twitter.
  - Successfully planned and organised Events on Social Media like Xperience 9, Smash-D-Dub.

## TECHNICAL SKILLS

---

- **Packages:** Sketch, Photoshop, Adobe XD, Illustrator, After Effects, Premiere Pro, AutoCAD, MATLAB, LaTeX
- **Languages:** C, C++, Python, Java, NodeJs, Golang, Kotlin
- **Web:** HTML, CSS, SASS, PHP, JavaScript, SQL, TypeScript, REST API
- **Utilities:** Bash, Git, MongoDB, Numpy, OpenCV, Firebase, AWS, Zepline, MS Office, MS Azure, Android Studio
- **Frameworks:** Angular, Express, Django, React.Js, Laravel, Truffle
- **Platform:** Windows, Linux, Android, Mac

## PROJECTS

---

- **Costa Rican Household Poverty Level Prediction** (IIT Kanpur)  
*Prof. Faiz Hamid* May 2019 - Jun 2019
  - Developed a supervised classification model to predict household poverty level
  - Performed Exploratory Data Analysis (EDA), dimensionality reduction, feature engineering and encoded categorical variables to prepare Dataset for machine learning
  - Compared several baseline machine learning models such as Classification Method, Logistic Regression and Neural Networks to see which one is most promising
  - Optimization and implementation of the best performing model and tune**Technologies:** Python, Jupiter
- **Ethereum Healthcare DApp** (IIT Kanpur)  
*Prof. Sandeep Shukla* Jan 2018 - Apr 2018
  - Build decentralized and cryptographically empowered database system to tackle the problem of unavailability of authentic past health records of a person.
  - Employed Ethereum to incorporate the business logic and technical details into a single smart contract.
  - Connected D-App with smart contracts using web3.js - a open source library
  - Compiled and deployed smart contracts over Blockchain Ethereum network using Truffle Framework

- Stored electronic health records of all users in a database using symmetric key cryptography

**Technologies:** Metamask, Truffle, NodeJS, Solidity, Web3.js, Ganache-cli

## • LAMMPS

(IIT Kanpur)

*Prof. Nilesch Gurao*

*July 2016 - Dec 2016*

- Used Molecular dynamics tool LAMMPS to determine elastic properties of metals
- Created a box of atoms in face centre cubic copper for different orientations
- Block was subjected to normal stresses to obtain elastic properties of copper.
- Compared the simulation results with experimental observations.

## • Kinetic Sculpture of Wing

(IIT Kanpur)

*Prof. Shashank Shekhar*

*Jan 2015 - Apr 2015*

- Received a **Merit certificate** of appreciation for design and fabrication of the project, submitted as the partial fulfillment of the course Introduction to Manufacturing Process (TA-201).
- Project was under Metallurgical Manufacturing Process course and involved various types of metallurgical processes like sand casting, grinding, welding, sheet-metal forming, and brazing.
- The kinetic sculpture is made with sheet metal, replicated a bird flapping its wings using simple machines and materials.

## RELEVANT COURSES

---

- Data Mining and Knowledge Discovery    ◦ Blockchain Technology and Application    ◦ Computer System and Security
- Fundamentals of Computing

## EXTRA-CURRICULAR ACTIVITIES

---

- **Technology:** Participated in robotics event ,Takneek'13 (Institute)  
Participated in event organized by astronomy club, Takneek'13 (Institute)  
Solved 3x3x3 Rubiks cube, Takneek13(Institute)
- **Films and Media:** Appointed to the post of Secretary, Photography club  
Worked in a team of over 20 individuals to successfully organize the Hall level workshops.  
Covered both technical and cultural fest of IIT Kanpur i.e. Techkriti14 and Antaragni14
- **National Service Scheme:** Published Ek Sparsh Prakriti ka Magazine under Prof. H.C.Verma  
Convinced teachers and students of different schools to participate in competition.