

ANSHUMAN AGRAWAL

github.com/anshuagrwal2791

anshuagrwal2791.github.io

anshuagrwal2791@gmail.com

+91-9800117655

EDUCATIONAL QUALIFICATIONS

Degree	Institute	Year	CPI/%
Dual Degree (B.Tech and M.Tech)	Mechanical Engg, IIT Kharagpur	2013-2018	8.18/10
Minor (B.Tech)	Computer Science & Engg, IIT Kharagpur	2013-2018	8.28/10
Senior Secondary School Exam(XII)	Rashtriya Military School, Ajmer	2011-2013	93.4%

- **Related Coursework** : Machine Learning | Operating Systems | Algorithms (Theory + Lab) | Social Computing | Smartphone Computing and Application | Information Retrieval | Programming and Data Structures
- Secured a **department change** to the Department of Mechanical Engg. by maintaining a CGPA of 9.07 at the end of 1st year.

TECHNICAL SKILLS

- Hands on experience with **Django, Java Play** and **Node.js**
- Thorough knowledge of algorithms and data structures and major machine learning algorithms and techniques
- **Languages** (Java, JavaScript, Python) **Database** (MySQL, MongoDB, Postgres, Neo4j)
- **Others** (AWS, Alexa Skills Kit, Jenkins, Appium, UIAutomator, HTML, CSS(Bootstrap), jQuery, L^AT_EX, git)

EXPERIENCE

Software Development Engineer, Toppr.com, Hyderabad (11th June 2018 - Present)

- Engineered complete Syllabus Manager single-handedly on **Django**, reducing syllabus updating time by 80%
- Upgraded syllabus database from **Postgres** to **Neo4j**, reducing combination syllabus creation time from **10s** to **100ms**.
- Developed Tutor Doubt-Session Booking and Online Presence Tracking feature using **socket.io** on **Node.js** and **ElasticSearch**
- Rebuilding (from scratch) the entire **CRM** of Toppr on **Java Play** using **TDD**. Solely, responsible for the architectural setup.

Data Privacy Inventory Solution, Wipro Limited, Chennai (17th May 2017 - 14th July 2017)

- Developed a questionnaire to conduct Privacy Impact Assessment based on GAPP for the upcoming GDPR regulations.
- Conceptualized a risk scoring model to assess the PIAs and built a **dashboard** using **Node.js** and **AngularJS** from scratch
- Deployed **Auth0 authentication** for secured access and to collect user statistics to help formulate marketing strategies.
- Received a **PPO** for a full-time Project Engineer role for consistently exceeding expectations across deliverables

Android and Backend Development, MyDhees, Bangalore (10th May 2016 - 15th Sep 2016)

- Developed hotel booking **Android** applications (for Customers and Clients) and their Backend APIs using **ExpressJS**
- Implemented features like Credit System, Refer & Earn and In-App Purchases using Juspay API with Citrus PG
- Deployed micro-services on **AWS-EBS**; Set up **Jenkins** server on an **AWS-EC2** instance for continuous integration
- Automated UI testing using **Appium** and **UIAutomator**; Used **Jira** to adopt **Agile methodology** for efficient development
- **Technologies**: Node.js, MongoDB, Google Maps and Places APIs, Volley, OkHttp, Retrofit, Firebase Cloud Messaging

Android Development, Cognitio, Kharagpur (1st Dec 2015 - 11th Feb 2016)

- Developed a smart quizzing Android application (**Quizzie**) for students, where user plays against the computer
- **Features**: Dynamic Scoring (More marks for quicker response), varied computer performance, beautifully displayed statistics
- The app has over **4000** downloads on Play Store and over **450 five** ★ ratings on Play Store [Play Store Link](#)

Content Writing, Social Media and Digital Marketing, BabyChakra, Mumbai (1st May 2015 - 10th July 2015)

- Increased newsletter readership to over **200%** by email marketing; Wrote and published Wikipedia page for the company
- Performed SEO (Search Engine Optimisation) for all the blogs using **Google AdWords**

PROJECTS

Comparing Online and Offline Info. During Disaster Events, Social Computing Term Project, (Oct, 2017)

- Undertook extraction and pre-processing (POS tagging, Abbreviation expansion and Fragmentation) of tweets
- Developed a cross-domain classifier for situational and non-situational tweets using **SVM(RBF kernel)**. Achieved **80% acc.**

Calculator for Amazon Alexa, Open Source, (June, 2017)

- Developed an advanced calculator skill for Alexa. The skill also keeps a calculation context and records history to recheck
- The skill has over **1,00,000 Active Users** and an average rating of **4** ★; It is among the **top 5 utility skills** on [Alexa Skill store](#)

Quiz App for Classroom, Open Source, (May, 2017)

- Built a framework for a real time local classroom quiz/survey for android devices; Tested on 5 devices simultaneously
- The app runs on local hotspot created by quiz master, making it usable in areas with no internet

Gesture Recognition for AR/VR Interfaces, Machine Learning Term Project, (Sep, 2016)

- Leveraged machine learning techniques for gesture recognition from finger flexion data to make hostile working places safer
- Involved in data collection and investigating the utility of various algorithms like k-NN, SVM and Logistic Regression

EXTRA ACADEMIC ACHIEVEMENTS

- Represented Ajmer(Rajasthan) district at **55th Under 17 State Level Senior Secondary Basketball Tournament 2010-11**.
- Member of Inter Hostel Silver winning Dumb Charades team for two consecutive years at IIT Kharagpur
- **Secretary, Literary Sub-Committee, Technology Students' Gymkhana, IIT Kharagpur, (2014-2015)**
 - Elected representative over **10,000** students; Introduced Parliamentary debate into the existing events
- **2nd in Blockchain Hackathon** (Android) organised by BTCX India in Kshitij, Asia's largest Techno - Management Fest