

Anumeha Agrawal

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TECHNICAL EXPERIENCE

Google Summer of Code 2018, Systems , AnitaB.Org

- Full Stack Development Intern Apr 2018 – Aug 2018
 - Development of Web App for Systems open source communities, using Angular 5 and NodeJS. Developed my own angular calendar with Google Calendar Integration through javascript and typescript methods. Used Mongo DB to render data which was hosted on MLab. Development of the contributors page for the main systems website using Pipes and Filters in Angular 5.
 - Development of Automated Slack Inviter for Grace Hopper Celebration of Women in Computing using NodeJS and Mongo DB.

Adrokart, Mangalore, Karnataka

- Web Development Intern May 2017 – Jul 2017
 - Developed a e-commerce website for Adrokart using Bootstrap and Javascript. Login and Authentication done for the website.

Wheels On Roll, Mangalore, Karnataka

- Front end Development Intern Jan 2017 – May 2017
 - Front end Development of Wheels On Roll Website using Materialize framework.

TECHNICAL SKILLS

Languages - C++, Java, Python, Javascript

Tools/Framework - Git, OpenGL, MEAN stack, Keras, MySQL, Android Studio ,Scikit Learn, Django

EDUCATION

National Institute of Technology, Karnataka, Surathkal, Mangalore, India

- B.Tech in Information Technology, Pre Final Year Jul 2016 – May 2020
 - CGPA of **9.00/10.00** (As of June 2018)

AECS Maruthi Magnolia PU College, Bangalore, India (Karnataka Board)

- Class 12 - **96.8 %** , Scored **100/100** in Mathematics

Delhi public School Bangalore South, Bangalore, India (CBSE)

- Class 10 - **10 CGPA**

SELECTED PROJECTS

All projects are available on github - [anumehaagrawal](https://github.com/anumehaagrawal)

- **Student Connect**
 - Developed a Django application for connecting university aspirants to university students to provide counselling at minimal rates. Also developed a recommendation system based on Microsoft Text API and Bing Search API. The platform recommends the best colleges for a student based on several parameters .
- **ChatBot with Webscraping**
 - Developed a chatbot in Java without using any framework or NLP, which answers basic questions based on a knowledge base, performs web scraping to get information off wikipedia, tells word meanings and reviews and ratings of movies.
- **Android Applications**
 - Developed an android app for classroom studies, where notes can be exchanged among students, college calendar can be linked to Google calendar and SMS from college courier services can be received on the app with notification.
- **Potential transaction prediction**
 - Achieved an rmse of 1.41 on Kaggle dataset by using weighted means of predictions from XGBoost and LightGBM algorithms along with PCA.
- **Quad Trees**
 - Implementation of Quad Trees data structure and surface mapping of equations using Quad Trees. Also performed image compression using Quad Trees which was used for surface mapping as well.
- **IEEE Ride Sharing Bike Project**
 - Developed an ensemble model to predict the number of bicycles at a particular stop using Random Forest Regressor and SeD ensemble classification methods.
- **Open Question Answering System (Ongoing)**
 - This project proposes to build an open domain answering system by reading Wikipedia and evaluating it against the SQuAD dataset. The model would need to solve tasks of document retrieval and machine comprehension of text. We intend to build an optimized model and compare with other models that have been proposed.
- **Parallel Graph Coloring Algorithms (Ongoing)**
 - Parallelising Kmap coloring algorithms in CUDA, OpenMP and MPI to obtain an achievable speedup over sequential algorithms.

ACHIEVEMENTS

- Developed Student Connect at Microsoft Code.Fun.Do Hackathon which was also selected among the top 3 projects at the Online round.
- Ranked 3873 among 1.3 million candidates in JEE MAINS.
- Obtained KVPY Scholarship 2014 with an AIR 506. Attended the Vijyoshi Camp at IISC
- One among the **top 30** in the state in the **Regional Maths Olympiad** 2014.
- Obtained NTSE 2013 Scholarship .

**EXTRA
CURRICULAR
ACTIVITIES**

- Webmaster, **IEEE, NITK Chapter**.
- Treasurer, **Web Enthusiasts' Club, NITK**.
- Internship Co-ordinator, **Information Technology Department, NITK**.
- Co Head Synthesence, **Engineer 2018**, the Annual Technical Symposium of NITK.
- Website Lead, Women in Tech Summit 2018
- Part of the team which developed the college website using Laravel. Worked on the front end as well the backend using PHP. Also developed the department website for the college.