Naman Gupta

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Education

Bachelor of Technology in Computer Science Engineering - GPA: **8.7** (Till 6th Sem.) Aug '15 – Jun '19
Maharaja Agrasen Institute of Technology, Guru Gobind Singh Indraprastha University, Delhi
Relevant Coursework: Algorithm Design and Analysis, Data Structure, Operating Systems, DBMS, Computer Networks, Object Oriented Programming, Java Programming.

Technical Skills

- **Languages**: C++, Java, Python
- **Frameworks**: Android, Firebase
- **Tools**: Git, Retrofit, MATLAB
- **Databases**: MySQL
- **Simulator:** The ONE (DTN)

Internship Experience

XPrep, Delhi Sample Jan '17 - Jul'17
Android App Development Intern ***(Android, Java, MVP, XML, Retrofit, Cloudinary, REST APIs)***

- Responsible for the development of version 2 of the XPrep app using MVP architecture.
- Implemented features such as broadcast message, online attendance, announcements, automatic online test creation, test report generation etc. for XPrep - a tutor-student-parent communication enabler platform.
- Developed doodling feature used in chat messenger to . Worked on features like draw, edit, write on images, redo and undo features. Worked on application improvements - bug fixes and user experience.

Research Experience

Research Internship at University of Fortaleza, Brazil June '18 – Aug '18

- Worked on a research project, **"Lungs diagnosis using various Evolutionary algorithms and Machine Learning"** under the guidance of **Professor Dr. Victor Hugo and Dr. Deepak Gupta**.
- Developed a Computer Aided Diagnosis (CAD) system which analysis lung CT scan images and classify them as diseases like COPD, Pulmonary or Healthy. 3 optimized bio-inspired evolutionary algorithms were proposed for feature selection to reduce the computational cost and increase the classification accuracy.

Research Internship at National Institute of Telecommunications (Inatel), Brazil Oct '17 – Apr'18

- Worked on a research project, **"Fault-Tolerant Moving Resource Mutual Exclusion Algorithm for FANET"** under the guidance of **Dr. Joel J. P. C. Rodrigues and Dr. Ashish Khanna**.
- Developed an algorithm to resolve the resource allocation problem in distributed Flying Ad Hoc Networks. System model was developed using THE ONE simulator for simulating the algorithm in which resources are allocated in a mutually exclusive way. Algorithm was made fault tolerant for the reliability of the system.

Publication

- **Naman Gupta,** Dr. Victor Hugo, Dr. Deepak Gupta, "Lung Disease Classification using Evolutionary Algorithm and Machine Learning" (Under Publication).
- Dr. Ashish Khanna, Dr. Joel Rodrigues, **Naman Gupta, "**Fault-Tolerant Moving Resource Mutual Exclusion Algorithm for FANET", Computers and Electrical Engineering, Elsevier (Under publication).

Projects

Nutrition Choice, World Food India Hackathon Project Oct '17

- Developed a cloud-based application that help the consumers to select a food product as per his/her budget and as per his/her nutritional requirements, provide details of nutritional profile of the different types of food and food products and then its linkage to consumers' requirement to boost a healthy life style of food consumers and to reduce the geographical and other barrier between food and consumers.

Gather, Hack DTU Hackathon Project Jan '17

- Developed an android app named Gather: A patient centred app containing which aims to help the poor and the needy people. Patient's family can search for a blood group and request for blood directly from the registered user and User can donate money (₹1 to ₹5) for treatment of poor people suffering from severe diseases.

Paying Guest App *GitHub* Sept ’16 - Oct ’16

- Developed an android app for searching Paying Guest (PG) in Delhi region. In the initial release, students could search PG’s within a range of their respective college.

StayUncle App (Prototype) *GitHub* Aug ’16

- Users can search hotels; filter by price, rating and location. Booking query is sent to the respective hotel owner.

Grocery Store Management System *GitHub* Jan’16 – Feb ’16

- Developed a C/C++ based offline grocery store management application. Through this project, learnt Object Oriented and File Handling concepts.