+91 9955526208
fazlerahman98@gmail.com
www.fazlerahmanejazi.wordpress.com
fazle-rahman-ejazi
fazlerahmanejazi

Fazle Rahman Ejazi

Education

2016 – 2020 **Indian Institute of Technology Patna**, *Bachelor of Technology in Computer Science and Engineering*.

Work experience

May 2019 – July 2019 **Software Development Intern**, ***Codenation***, Bangalore, India.

- Worked with Static Analysis Team on Codegraph to implement the *Generic Program Dependence Analysis* module which computes Data Dependence Graph (DDG) and Control Dependence Graph (CDG) from source code for up to 10 languages.
- The project mainly involved working with ASTs and CFGs and performing static code analysis.
- Developed and implemented an algorithm for computing DDG that supports easy incorporation of new languages.
- Implemented Fast Dominance Algorithm for computing CDG that finds the dominators in a CFG efficiently.

May 2018 – July 2018 **Research Intern**, ***The Institute of Mathematical Sciences***, Chennai, India.

- Worked on Parameterized Algorithms, mainly the problems involving Feedback Arc Set on directed graphs.
- Obtained a quadratic vertex kernel for Feedback Arc Set on Directed Split Graphs.

Achievements

Competitive Programming

- Member of team Squirtle Squad which was ranked **4th in ICPC Asia Kharagpur Onsite Round 2019**
- Member of team Squirtle Squad which was ranked **18th in ICPC Asia Regionals Online Round 2019** among 4401 teams
- Top **1%** Percentile Globally on **Hackerrank**(Rated **2274**)
- Top **1%** Percentile in India on **Codeforces**(Rated **1933**)

JEE Adv Secured 98.71 percentile among 0.2 million candidates.

JEE Main Ranked in top 0.5% of 1.5 million candidates.

Projects

Jan 2018 – March 2018 **MindHunter**, (*Python*).

- Used Random Decision Forests to predict probability that a crime belongs to certain category based on its time and location. Baseline(kNN): 45% Accuracy. Random Decision Forests: 73% Accuracy.
- Used these predictions to develop an efficient API that suggests probable crime category at a given location and time among the total of 39 categories.

Nov 2017 – Dec 2017 **GIS API**, (*Python, Flask*).

- Implemented Geographic Information System API using Flask and PostgreSQL which supports basic CRUD operations.
- Supports adding a new location, fetching all nearby locations and determining which region a new location falls in.