

# Parth Nanda

<https://parthn2.github.io/parthnanda/>

Email : [parthnanda002@gmail.com](mailto:parthnanda002@gmail.com)

Mobile : +91-9041688609

## EDUCATION

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- **Indian Institute of Technology Kharagpur** Kharagpur, India  
*Bachelor of Technology in Industrial and Systems Engineering; CGPA: 8.98* Aug. 2020 – July. 2024
- **Apeejay School** Jalandhar, India  
*High School; Percentage: 95* 2020
- **Apeejay School** Jalandhar, India  
*Secondary School; Percentage: 90.2* 2018

## EXPERIENCE

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- **University of Birmingham-Research Intern** April 2022 - July 2022
  - Read papers about Bees Algorithm, a search algorithm which mimics food forging behaviour of honey bees and its different use cases including robotic disassembly and TSP with drone problem
  - Wrote code for robotic disassembly in Python which reduces time complexity by  $O(n)$  from existing algorithms

## PROJECTS

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- **Fire Safety Android Application** April 2022
  - Built Android App using Java displaying information about fire safety awareness and linking to external videos
  - Implemented video calling feature in-app itself for emergency situations using webRTC framework PeerJS
  - Used Firebase as a database for storing location of the users and storing the actions of all the users
- **Online Food order application** Feb 2022-March 2022
  - Collaborated with 19 other team members for the development of microservices-based dockerized application
  - Built frontend applications for both the users and the restaurants using React and Material UI, deployed on Netify
  - Used Django Rest framework for backend development, Heroku for deployment, Notion for API documentation, Docker for containerizing, Kubernetes as an orchestrator and RabbitMQ for synchronizing the microservices

## RELEVANT COURSEWORK

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- **Computer Science:** Artificial Intelligence, DataBase Management System, Hardware Security, Algorithms  
**Other Courses:** Statistical Learning, Probability and Statistics, Operations Research

## PROGRAMMING SKILLS

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- **Languages:** C++, C, Python, Java      **Technologies:** Django Rest Framework, React, Android Studio, Git

## TECHNICAL ACHIEVEMENTS

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- **Competitive Programming**
  - Achieved a rank of 53 in Codechef starters 42 ( division 2 contest ) out of 16900 total participants
  - Achieved a rank of 343 in Codeforces round 979 ( division 3 contest ) out of 19000 total participants
  - Achieved a rating of 2194 on Codechef - 5 Star — Achieved a rating of 1657 on Codeforces - Expert
  - Google Kickstart 2022 - 670 rank in round C out of 12500 — 999 rank in round D rank out of 8100 participants
  - Qualified to round 2 of Facebook Hacker cup 2021 with a rank of 1801 in round 1 out of 13000 total participants
- **Open Source**
  - Contributed to Ankidroid android application by adding instructions to solve issues on the failure of tests
- **Competition**
  - Secured Gold in university level competition for developing a website having OTP-based authentication for Technology Students Gymkhana using React and Django for development and Figma for designing as a team of 11
  - 4th Position in OpenSoft 2022 as a team representing hall in intra IIT Kharagpur event for software development
  - 3rd Position in data analysis 2022 as a team representing hall in intra IIT Kharagpur event for data analytics
  - Led a team of 3 and bagged 1st position in Aerolympics 2018, an event organised by Aeronautical Society of India
  - Joint Entrance Exam: Secured top 1.5 percentile (3762 rank) in JEE advanced 2020 out of 0.25 million candidates