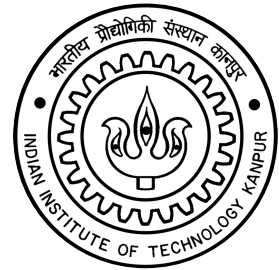


GUNTAS SINGH BRAR

Junior Undergraduate, Computer Science and Engineering

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EXPERIENCE

Full Stack Developer Intern

Summer of Code IIT Kanpur

📅 May 2019 – July 2019 📍 IIT Kanpur

- Worked in a team of 5 people and developed a web based platform for the functioning of Health Centre, IIT Kanpur in online mode
- Built a fully functional website using HTML and Bootstrap for the frontend, Django for the backend and PostgreSQL as the database

ACHIEVEMENTS

- Secured Third position at IIT Kanpur Summer of Code 2019 among 23 participating teams
- Secured All India Rank 1032 in the Joint Entrance Examination Advanced 2018 among 230 thousand candidates
- Secured All India Rank 2564 in the Joint Entrance Examination Main 2018 among 1.1 million candidates

PROJECTS

Escaping The Caves

CS641: Modern Cryptology Course Project

📅 January 2020 - March 2020

- Cracked classical ciphers such as Vignere and Substitution-Permutation Ciphers
- Studied and designed chosen plain-text attacks on weaker forms of modern cryptographic methods such as DES, EAEAE, RSA and KECCAK

Haskell Scrabble Solver

Programming Club, IIT Kanpur

📅 May 2019-June 2019

- Learned about the paradigm of functional programming and developed a Scrabble Solver in Haskell, a functional programming language
- The program determined the most scoring valid word given the current state of the scrabble board

Ethical Hacking

Association of Computing Activities,
IIT Kanpur

📅 March 2019 - April 2019

- Learned about Git, Linux shell commands, setting up ssh connections, file sharing, Assembly Language, various vulnerabilities and their exploits
- Studied basic cryptography, elementary ciphers and practiced through online CTFs and games like OverTheWire

EDUCATION

Bachelor of Technology in
Computer Science and Engineering
7.4 CGPA

Indian Institute of Technology, Kanpur

📅 July 2018 – Present 📍 Kanpur, UP

AISSCE (CBSE Class XII)
94.7%

Guru Nanak Public School

📅 2018 📍 Kota, Rajasthan

AISSE (CBSE Class X)
10 CGPA

Central Academy Sr. Sec. School

📅 2016 📍 Bhilwara, Rajasthan

TECHNICAL SKILLS

Programming Languages:

- C/C++ • Python • Haskell • JS

Tools and Frameworks:

- Django • Bootstrap • PostgreSQL

Utilities:

- Verilog HDL • \LaTeX • HTML
- Git • Arduino • CSS
- Linux Shell Utilities • Bash Scripting

COURSEWORK

- Fundamentals of Computing (C Language)
- Discrete Mathematics
- Linear Algebra and ODE
- Data Structures and Algorithms
- Software Development and Operations
- Computer Organization
- Modern Cryptology

RESPONSIBILITIES

• Secretary, Main Events

📅 2019 📍 Antaragni, IIT Kanpur

• Organizer, Public Relations

📅 2020 📍 Antaragni, IIT Kanpur

MISCELLANEOUS

- Completed a 5 course specialization in Python Programming from coursera with a capstone project on Tesseract, Pillow and OpenCV