

Arnab Sen

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EDUCATION

B.Tech, *Indian Institute of Engineering Science and Technology* [↗](#)

2019 – 2023 | Shibpur, India

Stream: **Computer Science and Technology**

CGPA **9.65 / 10.0**

EXPERIENCE

SWE Intern, *Google* [↗](#)

May 2022 – Aug 2022 | Bangalore, India

- Implemented an email based notification system for an Ads Resource Engineering Team.
 - Explored the various notification platforms available at Google to select the best fit for our use case.
 - Prepared a detailed design doc for the implementation with component overview, workflow diagrams, etc.
 - Integrated the notification system with a feature to demonstrate it's working.
- Implemented features, fixed bugs, & performed unit testing in an internal Ads Planning Tool.
- Worked with Java in the backend. And with Angular JS and Javascript in the frontend.

Student Intern, *Summer of Bitcoin* [↗](#)

Jul 2021 – Sep 2021

- Improved support for **User Statically Defined Tracing (USDT)** in Bitcoin core by adding new tracepoints and scripts, leveraging **eBPF (extended Berkeley Packet Filter)** technology.
- Learned **Bitcoin Protocol Development**.
- Conducted a session on **Bitcoin Script** to an audience of **150**.
- Worked mainly with **C++**, **gdb**, **Python** and **Makefile**.
- Pull Requests: [PR-1](#) [↗](#), [PR-2](#) [↗](#)

Full-Stack Web Developer, *Coronasafe* [↗](#)

Feb 2021 – Jun 2021

- Added new features to a health care project based in Kerala called **Arike**.
 - Used by **2000+** hospital staffs and nurses.
 - Built on **Rails** and **Rescript React**.
 - [My Commits](#) [↗](#).
- Fixed bugs and designed the frontend for the project **Life** [↗](#).
 - Provided COVID support and was used by **40K+** people.
 - Built on **NextJS**, **users**.
 - [My Commits](#) [↗](#).

SKILLS

Languages (*C/C++, Python3, Javascript, Golang, Java, Typescript*)

Frontend Frameworks (*React JS, Vue3, Bootstrap, Tailwind CSS*)


Backend Frameworks (*Flask, Ruby on Rails, Express Js*)

Others (*Firebase, MongoDB, Postgresql, Linux, Docker, Git*)


PROJECTS

Markdown to PDF, *Converts a Markdown file to PDF with the formatting.* [Github](#) [↗](#)

- Implemented a markdown parser from scratch.
- Format markdown elements like Heading, Paragraphs, Bold, Italic etc. and even Images.
- Built using **Golang** & integrated automatic **Linting & Testing** on PRs with **GitHub Actions**.

Kronos Tracker, *Todo management tool that groups tasks on the basis of priority levels.* [Github](#) 

- Client App built with **ReactJs** and **Tailwind CSS**.
- Added visualizations to display the past performance using **Chart.js**.
- Uses **Firestore Data storage** to store the todos data and **Firestore Auth** for authentication.

HackersNLadders, *Traditional Snakes and Ladders game with an Arduino controller.* [Github](#) 

- An arduino-based module as the game controller, interfaced with the computer through a Serial port.
- Built with **Pygame** for the game interface and the input from **Arduino** handled by **Pyserial Library**.

AWARDS

Cyber-Security Hackathon by, RISE 

Sep 2022

2nd position among **22k participants** in the Cybersecurity Hackathon.

Codevita 2022, TCS

Apr 2022

Ranked **98 globally** among **136,054** students (from **34** countries) in Round 2.

Hashcode 2022, Google

Feb 2022

All India Rank of **25** and a global rank of **311** with a score of 3001126 pts.

ICPC Asia Kanpur-Mathura Regionalist 2020, ACM-ICPC

Aug 2021

Ranked **72** among **200+** teams.

Summer of Bitcoin

Jun 2021

Among the **50** students that were selected out of **5000+** applicants.

Best Hardware Hack, Major League Hacking 

Jan 2021





Won the 48 Hour hackathon in the Hardware Category.

CoronaSafe Engineering Fellowship Program, AICTE 

Jan 2021


Secured a rank in the top **24** out of **50,452** applicants.


CODING PROFILES

- **Leetcode** rating **2006**, top 2.31%. [arnabsen1729](#) 
- **Codeforces** rating **1644** tagged Expert. [arnab1729](#) 
- **CodeChef** rating **1841**, 4-stars. [arnab1729](#) 
- **CTF Time** all India ranking **76** and **1116** globally. [0xw3bs3c](#) 

ORGANIZATIONS

CodeIIEST, General Secretary 

- Conducted Competitive Programming training camp for students all around India.
- Organised a CTF event **"Access Denied"**  and received a participation of 321 teams.

DSC-IIEST, Co-Lead 

- Facilitated 30 Days of Google Cloud event and received a participation of 161.
- Gained over 820 members in less than a year.
- Hosted AMAs with guest speakers, moderated sessions and conducted 40+ events.