PRAKHAR SAXENA

📞 +91-9560305827 ✉ prakharrsaxena@gmail.com 🌐 https://psycho-pirate.github.io/

🔗 https://www.linkedin.com/in/prakhar-saxena-a63213134/

Education

IIT (BHU), Varanasi	**8.47 CGPA**
B.Tech + M.Tech Civil Engineering	*July 2018 - May 2023*
Holy Innocents Public School, Delhi	**94.20 %**
Senior Secondary (Class XII)	*March 2017*

Experience

Cisco — **Python, Docker, REST API, Robot framework**
Software Development Engineer Intern — *May 2022 – July 2022*

- Developed a framework to **automate the process of on-boarding tenant** and associated users in the given data platform.
- **Reduced duration** of the whole process from **hours to mere seconds** & improved on-boarding efficiency.
- Aligned the core project with existing test framework.

Summer of Bitcoin' 2022 and 2023 (LightningDevKit) — **Python, Rust, Shell Scripting**
Software Development Engineer Intern — *May 2022 – August 2022, May 2023 – August 2023*

- Developed a framework to **integrate LDK implementation** into the **Lnprototest** test suite.
- Implemented a number of methods to test **LDK's** conformity with **BOLT protocols**.
- Improved **Lnprototest's** compatibility with other Lightning implementations.

Google Summer of Code 2022 and 2023 Mentor — **Python**
Sympy — *May 2022 – August 2022, May 2023 – August 2023*

- Mentored student developers at **Google Summer of Code 2022 and 2023** under **Sympy**.
- **Reviewed and Merged** thousands of lines of code with the Sympy codebase.

Projects

Google Summer of Code 2021 (Sympy) | *Python, Sphinx*

- Created a Rich Beam Solver and Extended the Continuum Mechanics Module of **Sympy**.
- Added around 30 methods and enhanced functionality of the 2D Beam and 3D Beam Class.

Ammu-Nation | *C++*

- Built an interactive weapon store which uses **file handling** and concepts of **OOP** to carry out purchases.

Achievements / Extracurricular

- Got selected for **Google Summer of Code 2021**. One of the **1300** students among **7000 applicants**.
- Got selected for **Summer of Bitcoin 2022**. One of the **80** students among **20,000 applicants**.
- Got selected for **Summer of Bitcoin 2023**. One of the **45** students among **10,000 applicants**.
- **Expert** level programmer on Codeforces (Highest rated **1730**).
- Secured a Global Rank of **74** on Codeforces Round 767(div.2) **among 26,000 participants**.
- Secured a Global Rank of **5** on CodeChef January Long Challenge 2022.
- Solved over **1500+ DSA** problems on various coding platforms.
- Qualified JEE Main and secured **All India Rank of 10777** in JEE Advanced 2018 among 12,00,000 students.
- Organised and managed various Inter and Intra College Events as **Joint Secretary** of Western Music Club.
- Participated at various Battle of Bands events at **IIT Bombay**, **IIT Indore** and **IIT BHU**.

Technical Skills

Languages: **C++, Python, C, Rust**

Areas of Interest: Data Structures and Algorithms, Competitive Programming, Object Oriented Programming, Bitcoin, Lightning Network

Technologies/Frameworks: Git, Docker, REST API, Robot Framework, Sphinx, SQL