

Raunak Seksaria

✉ seksariaraunak@gmail.com | 🌐 github.com/RaunakSeksaria | 🔗 linkedin.com/in/raunak-seksaria | 📞 +91 7003121509

Education

- **International Institute of Information Technology, Hyderabad, India (2023 - Expected 2028)** **CGPA : 9.01**
B.Tech in Computer Science and MS in Computational Natural Sciences by Research
- **St. James' School, Kolkata, India (2008 - 2023)** *ICSE Class 10 : 98% | ISC Class 12 : 97.75%*

Experience

- **Dual Degree Researcher** - *Centre for Computational Natural Sciences and Bioinformatics, IIIT-H* (May 2025 - ongoing)
 - Working towards a publication on signed-graph analysis of geopolitical networks, including clustering and stability analyses.
 - Exploring perturbative and resilience analysis on Complex Networks; Higher-Order Interactions in simplicial complexes
- **Teaching Assistant - Discrete Structures** - IIIT Hyderabad (Aug 2025 - Dec 2025)
 - Conducted 10+ tutorial classes, and graded assignments and exams for a course taken by 275+ undergraduate students.
- **Software Developer Intern** - *Product Labs, IIIT-H* (May 2025 - June 2025)
 - Developed the MVP for software that takes real-time Youtube Livestream data, and shows it with the audio in regional languages
- **Team lead** - *Parent Diaries, associated with startup HopeLog* (Jan 2025 - Apr 2025)
 - Led development of a deployed MERN + React Native cross-platform app with multilingual speech chat (OpenAI APIs).
 - Implemented AI-based milestone tracking , Chat Systems using WSS, vaccination/growth tracking, and a parent forum.

Projects

- **Interactive Bash-like C-Shell:** [Link](#)
Developed a robust POSIX C shell with 12+ custom commands; supporting I/O redirection, piping, and signal handling
- **Full Stack E-commerce platform for Buy, Sell, Rent:** [Link](#)
Developed a platform which allows users to buy, sell, and rent items; using Next.js, Tailwind CSS, Express.js, MongoDB
- **Shared File System:** [Link](#)
Built a fault-tolerant distributed document system with concurrency control, using a multi-client multi-server architecture.
- **Provably Secure Cryptographic Library in Rust** [Link](#)
Early stage development of a provably-secure cryptographic crate in Rust for encryption and authentication
- **Computational modelling of scientific problems:** [Link](#)
Modelled problems like Random Walks, Prey-Predator, Logistic Map (Steady-State Analysis), Monte-Carlo Simulations (Multi-dimensional Integrals), Fourier Analysis using complex numbers and epicycles, Protein Visualisation using Python

Academic Achievements

- **Dean's List** - Top 10% (Semester 2) | Top 15% (Semester 1), among 300+ students at IIIT Hyderabad
- **JEE Advanced** - Rank 4543 | **JEE Mains** - 99 percentile | **WBJEE** - Rank 288
- **The Bishop's Medal for Academic Excellence** - Highest scorer in Science stream across the entire school (ISC 2023)

Skills

- **Programming Languages:** Python, C++, C, JavaScript, Java, Racket, Rust, SQL **Tools:** Git, Linux, Jupyter Notebook
- **Libraries and Frameworks:** Numpy, Matplotlib, Networkx, Seaborn, Scikit-learn, Pandas, Flask, Next.js, Tailwind, SQLite

Extra-curricular Activities:

- **Co-founder** - *Katran (Onaya Foundation)* (Dec 2020 - Mar 2023)
 - Upcycled 10000m+ waste fabric, distributed 8000+ dresses to marginalised children, uplifted 40+ marginalized artisans
 - Helped raise ₹3+ Lakh, organized 15+ fundraising events like debate, extempore, and nationwide plantation drives
 - Featured in 12+ leading publications, including The India Times, The Telegraph, The Better India, Global Indian
- **School Prefect**, St. James' School - Selected from a batch of 250; acted as a liaison between administration and 2,500+ students
- **Chairperson** : JacoMUN '22,'23 - Chaired committees in one of the biggest MUN events in India, with 600+ delegates
- Participated in **20+ debates and MUNs** with multiple national level awards; won **16th East India Debate** representing school
- Senior Diploma and Distinction in Art and Painting, Rabindra Bharati University; **Best Artist**, St. James' School

Relevant Coursework

(Grades out of 10): Data Structures and Algorithms (9), Design and Analysis of Algorithms (8), Operating Systems and Networks (9), DBMS (10), Computer Systems Organization (9), Principles of Programming Languages (9), Design and Analysis of Software Systems (9), Linear Algebra (9), Discrete Structures (10), Machine, Data and Learning (9), Computer Programming (9)