

Bangalore, Karnataka DoB: 16 August, 2000

EDUCATION

PG DipASR in Computer Science	Ashoka University	2021-22	3.91 / 4 (Silver Medallist)
B. Sc. in Computer Science	Ashoka University	2018-21	3.76 / 4 (Bronze Medallist)
CLASS XII in Science and English	National Public School, Rajajinagar	2016-18	96%

PROFESSIONAL EXPERIENCE

Mphasis Labs | PQC & Quantum Computing Intern

Jun 2021 - Mar 2022

- Researched technical details of state-of-the-art (NIST) lattice-based signature schemes such as FALCON.
- Researched and improved resource estimates for quantum attack circuits; studied quantum circuit synthesis for polynomial operations.

Koc University Summer Research Program | Blockchain & Cryptocurrency Research Group

Jun 2020 - Aug 2020

- Selected for 3-months KUSRP as a research member under a Ph.D. mentor from Koc University, Istanbul.
- Worked on analysing an anonymous payment scheme using Zerocoin, and cryptographic security of its public ledger systems.

Cisco Talent Outreach Program | App Development Team Member

Oct 2017 - Apr 2018

- Worked on a social impact web application for 6 months with a team of 8 members under a mentor from Cisco Systems.
- Led the backend development sub-team; compiled extensive code for database management, using MEAN stack.

PROJECTS

- Capstone Thesis: Wrote a thesis on estimating resources to attack AES using quantum search algorithms; improved quantum resource estimations and studied search algorithms extensively.
- **3D Ultimate Frisbee Game**: Developed a multiplayer sports game as a web application; implemented asset loading, model rigging, character controllers, gamestate FSMs, and other game engine components from scratch. (*JS/Node.js/Three.js*)
- C sus4: Developed an application to generate musical accompaniments to a musical/vocal melody in different themes and tones using Context Free Grammars and jazz datasets. (JS/HTML/CSS)
- **Personalized Eye Tracker**: Designed and implemented a deep learning model to map a specific user's eyes to screen coordinates and generate a heatmap of eye usage. (*Python/TensorFlow*)
- RavelO ExcelO: Created an e-travel and e-commerce website using different stacks from scratch. Implemented dynamic user-based algorithms to provide personalised recommendations. (Python-Django, MEAN stack)

ACCOMPLISHMENTS AND POSITIONS HELD

• Teaching Assistant, Ashoka University

2021

- o Selected to be a teaching assistant for a course of the Computer Science department.
- Dean's List, Ashoka University

2019, 2020, 2021

- Recognised on the Dean's List for academic excellence in the 2nd, 5th, 6th, and 7th semesters.
- Ultimate Frisbee Team Vice-Captain, Ashoka University

2020

- o Selected to be vice-captain of the college main team for the National College Ultimate Championship.
- School House Captain, National Public School

2018

o Elected by the student body to be a member of the Student Council as House Captain.

EXTRACURRICULAR ACTIVITIES

- Sports: Played in multiple Ultimate Frisbee tournaments across India with college and club teams.
- Music: Singer-songwriter, composer, and cover artist; part of multiple A Cappella groups.
- Cycling: Took part in a 300-km Nilgiris fund-raising cycle ride, raising ₹50,000 to support Adivasi communities.
- Trekking: Participated in multiple treks organised by YHAI, including a week-long Himalayan trek.

TECHNICAL STRENGTHS

Languages: Python, JavaScript, HTML/CSS, Node.js

Topics: Algorithms, Research, Cryptography, Web App Development