

Aarav Varshney

E-8, T-14, Type-IV, East Kidwai Nagar, INA, New Delhi - 110023 | +91-7289988234 | aarav.varshney22@gmail.com | [linkedin.com/in/aarav22](https://www.linkedin.com/in/aarav22) | github.com/aarav22

EDUCATION

Ashoka University

Postgraduate Diploma in Advanced Studies and Research

Sonepat, India

Sept. 2022 – May 2023

- Advanced Major in CS (Cryptography) under Prof. Mahavir Jhawar.
- Teaching Assistant for Computer Networks & Computer Security and Privacy

Ashoka University

Bachelor of Science in Computer Science, Minor in Mathematics

Sonepat, India

Aug. 2019 – May 2022

- Graduated Cum Laude with Major GPA of 3.73/4.0.
- Teaching Assistant for Database Management Systems; Head of Technology at Ashoka Business Review.
- Top 20% in DevCTF: Capture the Flag, IIT Delhi.

EXPERIENCE

Research Assistant

Defense Research & Development Organisation (DRDO)

Novemeber 2022 – Present

Delhi, India

- Developed software for Quantum Resistant Public Key Infrastructure (PKI).
- Implemented openssl-verifiable post quantum X.509 certificates.

Software Engineer

Amuse Labs

June 2022 – Aug. 2022

Bengaluru, India

- Increased distribution channel for digital puzzles by integrating Alexa for clients like Washington Post.
- Developed REST APIs in Express.js and built a Typescript library to add Alexa on any front-end.
- Accelerated development by setting up a dev environment with reverse tunneling, and docker scripts.

Backend Developer

SALT (YC'W22)

Mar. 2022 – June 2022

Bengaluru, India

- Redesigned PDF conversion technique to decrease document generation time by 30-40 % in Node.js and docker; worked on creating microservices for document templating engine.
- Documented APIs and automated deployment with GitHub workflows on AWS.

Founder & Head of Development

Beyond Design Studio

Sept. 2020 – Aug. 2022

Chennai, India

- Led team of 20-30 members to execute industry projects with net profit of Rs. 3L+; worked on Next.js, TailwindCSS, Node.js, Express.js, and GCP across multiple projects.
- Formed partnerships with DaurCom, InIFarms, Quintessentially and Niti Aayog for development and maintenance.

PROJECTS

Trading App | *Typescript, Socket.js, Node.js, Next.js, PostgreSQL, GCP*

April. 2022 – Aug. 2022

- Designed backend to handle 200+ users on a live trading app with new updates to prices triggered every minute.
- Timed events with GCP's Cron Scheduler and sockets to push updates. Deployed the platform on Cloud SQL and App engine with multiple instances.

Jaan Pehchan | *Javascript, Node.js, ReactNative, Neo4j, Heroku*

Jan. 2022 – May 2022

- Engineered fullstack to build a social networking app for small businesses; garnered 500+ downloads.
- Visualized & established relationship with 60K+ nodes using Neo4j.

The New Geography | *Kotlin, Java, Android Studio*

July 2020 – Aug. 2020

- Built an android app to educate users about various restrictions put on internet.
- Reverse-engineered censoring on Google Maps by translating China's GCJ-02 geodetic datum to WGS-84.

VOLUNTEER EXPERIENCE

Teacher

South Asian Winter Camp

Dec. 2019 – May 2022

Remote

- Designed and taught a CS curriculum to a class of 30+ high school students inculcating programming, ethics and career options.