# Aman Kumar Sheoran

Hisar, Haryana

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## Education

**National Institute of Technology Karnataka, Surathkal** — **Aug. 2023 – Jul 2026**
*Masters of Computer Applications - **CGPA** - **9.73*** — *Surathkal, Karnataka*

**University of Delhi** — **Aug. 2020 – Jul 2023**
*Bachelor of Science (Hons.) in Computer Science - **CGPA** - **9.514*** — *New Delhi, Delhi*

**OP Jindal Modern School** — **Jul 2020**
*Class XII - **Percentage** - **95.5%*** — *Hisar, Haryana*

## Internship

**D.E. Shaw India** — **May 2025 – July 2025**
*Technology Developer* — *Bengaluru, Karnataka*

- Developed a JupyterLab extension **to auto-generate interactive reports** by collecting notebook variables and leveraging an LLM to create a report layout.
- Engineered a hybrid variable-detection system using Abstract Syntax Tree (AST) analysis and kernel inspection, and **designed a sophisticated multi-step LLM prompt** to produce structured, high-quality Python code
- Built a **JupyterLab extension to eliminate manual notebook runs by scheduling automated executions** through the firm's internal batch scheduling system.
- Ensured high software quality across both projects by **implementing extensive unit and component tests**, and authoring comprehensive design documents and README files.

## Projects

**SecureVault - App for Storing Sensitive Information** | *React, Tailwind CSS, NodeJS, MongoDB, Web Cryptography*

- Developed a secure web app using React, enabling encrypted storage of sensitive data like card details.
- Integrated AES-256 encryption with client-side encryption, ensuring even the server cannot access user data.

**VoicePen - Audio Note Taker** | *EJS, Express, NodeJS, MongoDB*

- Built a web app allowing users to take notes via voice-to-text conversion with secure authentication.
- Implemented text summarization for concise notes and enhanced UX with a clean, intuitive interface.

**ID Card Generation and Verification** | *Python, PHP*

- Developed an ID card generator for college events, streamlining the creation process for coordinators.
- Integrated QR codes for quick verification via the society's website, enhancing security and efficiency.

## Technical Skills

**Languages (Adept):** Java    **Languages (Familiar):** C++, Python, TypeScript, JavaScript, SQL, HTML/CSS
**Developer Tools:** Cursor, VS Code, IntelliJ, WebStorm
**Technologies/Frameworks:** React, NodeJS, GitHub

## Achievements

- Secured **first place** in AstroHack competition organised by St. Joseph Engineering College, Mangalore.
- Achieved a **Top 3 ranking** in Version'24, the prestigious All India MCA Meet organised by NIT Trichy.
- Secured an All India Rank of **62** in **NIMCET 2023**.
- Awarded the title of **Budding Coders** in Bug Bytes League - GGS Hackathon.

## Extracurricular

**Google Developer Student Clubs** — **December 2023 – Present**
*Member* — *NITK Surathkal*

- Developed Discord bot for the club's Discord channel.
- Participated in various tech discussions as part of the club.
- Took up the role of POC for organizing the club's tech event.

**Curieux - The Computer Science Society** — **March 2021 – July 2023**
*Executive Council Member* — *University of Delhi*

- Organised various events like coding competition, treasure hunt, etc.
- Took up the task of generating ID cards for society's event in the college's main fest.