

# Shivam Mahajan

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## EDUCATION

### Bachelor of Engineering in Computer Science and Engineering

Chitkara University

- **CGPA:** 9.35/10 | **Dean's List:** 2022 – 2026

Aug 2022 – Aug 2026

Punjab, India

## EXPERIENCE

### Morgan Stanley

Technology Apprentice

Aug 2025 – Aug 2026

Bengaluru, India

- **Engineered** a Big Data CIAM warehouse using **Spark** and **Kafka**, streaming **5M+** events via **4** PySpark workflows (**20+** jobs) into **Azure Snowflake** at **0%** row-count tolerance, optimizing enterprise cloud analytics.
- **Architected** end-to-end Snowflake deployments across a **3-tier** architecture using **Jenkins CI/CD**, automating **135** role-based grants in **7+** schemas via Liquibase to enforce strict data governance and security.
- **Developed** Python **ETL** pipelines ingesting **4** data types, boosting throughput **3.9x**; maximized ROI via performance load-testing to **1M** users and identifying thrashing at **140** workers to ensure system scalability.
- **Maintained** Java REST APIs serving **500k+** users across **4** environments using **Agile** methodologies, enforcing strict RBAC security to mitigate downtime and ensure enterprise-grade availability and defect resolution.

## PROJECTS

### Productivity Caller | Kotlin, Jetpack Compose, MVVM, Dagger Hilt | [Demo Video](#)

May 2026 – Present

- **Built** a production-ready application boosting task-completion rates by **35%**, integrating native phone calls via the Telecom framework to enhance user experience and engagement over standard push notifications.
- **Enforced** high reliability across a **25,000+** line codebase via **OOP** design and MVVM, guaranteeing system stability by validating logic with **425+** unit tests (JUnit) following strict **TDD** and **Agile SDLC** practices.
- **Accelerated** task creation via a custom NLP data processing pipeline supporting **80+** regex patterns, ensuring **100%** background delivery reliability to optimize continuous delivery operations and workflow efficiency.

### Chaincode - NFT + Code Platform | MERN, Python, Gemini API, Blockchain | [Live Site](#) | [Demo](#)

Oct 2024

- **Led** a 4-person team using **Scrum** methodologies to win **3rd place** (out of **200+** teams) at HackIndia Regionals, collaborating cross-functionally to deliver a complete decentralized code-to-NFT platform seamlessly.
- **Orchestrated** **100%** of the minting workflow achieving **95%+** accuracy via **GCP** integrations, enforcing strict data governance and cloud security to validate code originality at scale across distributed environments.
- **Designed** a hybrid application by developing **15+** **RESTful** APIs for off-chain data management, complementing **3** core smart contracts to deliver innovative digital products and robust distributed application concepts.

### QuizDeck - Multiplayer Quiz Platform | React, WebSockets, Node.js | [GitHub](#)

Nov 2024 – Dec 2024

- **Engineered** a real-time Node.js backend server handling **500** concurrent users, utilizing WebSockets to achieve low-latency communication and deliver a high-quality experience for interactive distributed systems.
- **Achieved 31ms** average response times and boosted message delivery speeds by **30%**, leveraging **Power BI** for performance tracking and deploying automation workflows to resolve defects and optimize backend execution.

## SKILLS

- **Languages:** Python, Java, Scala, Kotlin, C/C++, SQL, JavaScript, HTML/CSS
- **Frameworks & Libraries:** Spring Boot, Angular, Jetpack Compose, MERN Stack (React, Node.js, Express.js), Django, Flask, TensorFlow, Pandas, NumPy, Scikit-learn
- **Databases & Tools:** GCP, Azure Snowflake, PySpark, Hive, Jenkins, Maven, Power BI, Kafka (Event-Driven), DevOps, Oracle, MongoDB (NoSQL), MySQL, SQLite (Room), Git, WebSockets, Vim, Autosys, OAuth 2.0, mTLS, Grafana, Splunk, Unix/Linux, RBAC
- **Concepts:** DSA, CI/CD, Microservices, System Design (Scalability, Concurrency), Clean Architecture (MVVM), Distributed Systems, Data Modeling, Machine Learning, OOPs, REST APIs, HTTP, TDD/BDD, Agile/Scrum, Secrets Management, Certificate Management

## ACHIEVEMENTS

- **Open Source (Wikimedia Foundation):** Selected for the "Road to Wiki" Cohort 1 from **260+** applicants, successfully merging a Pull Request into the core **MediaWiki** codebase.
- **Problem Solving & Hackathons:** Solved **2,600+** **DSA problems** across [LeetCode \(1,900+\)](#) and [Codeforces \(700+\)](#); secured **3rd place out of 200+** teams at HackIndia Regionals.
- **Developer Consistency:** Co-founded and completed the '1001 Days of Code' challenge, subsequently scaling the public initiative to **2,002 days** with an active, documented [1,150+ day daily streak](#).