

SACHIN

✉ sachin01092004yadav@gmail.com [in LinkedIn](#) [GitHub](#)

Education

Guru Gobind Singh Indraprastha University, Delhi

2022 - 2026

B.Tech in Computer Science & Engineering

7.81/10 CGPA

Work Experience

AI Intern – Infosys

August 2025 – December 2025

Software Engineering Trainee - JPMorgan Chase & Co.

November 2025

Intern – AICTE IDEA Lab, GGSIPU

June 2024 – December 2024

Data Analytics Intern – IBM SkillsBuild

June 2024 – August 2024

Software Engineering Intern – HackerRank

March 2024 – April 2024

AI Trainee – Acmegrade

June 2023 – July 2023

Projects

Earthquake Prediction Using Machine Learning - Minor Project

- Developed an earthquake prediction system using machine learning with Python, analyzing seismic datasets containing magnitude, depth, and geographic coordinates.
- Implemented optimized feature engineering and model tuning, improving prediction accuracy by 40–60% compared to baseline models.
- Integrated a real-time alert mechanism using automated data pipelines, providing users with early notifications and improving decision-making during seismic events.

Data Analysis Projects - [IBM SkillsBuild](#)

- Conducted comprehensive data analyses using advanced methodologies and tools learned during a 6-week intensive training program. Gained proficiency in interpreting complex datasets to drive informed decision-making.

Smart Dust Collector [AICTE Idea Lab](#), [USICT Internship](#)

- Developed an innovative dust collection system utilizing **3D printing**, **laser engraving**, and **CAD design** with **Autodesk Fusion 360**. Enhanced efficiency and sustainability in industrial environments.

Hospital Management System (HMS)- Personal Project

- **Developed a comprehensive desktop-based Hospital Management System** to efficiently manage patient records, appointments, doctor details, and billing workflows.
- **Implemented secure data storage and CRUD operations** using structured database design to ensure seamless access and retrieval of medical information.
- **Designed an intuitive user interface** to streamline hospital operations, improving administrative productivity and reducing manual errors.

Frontend Development Projects - [IBM SkillsBuild](#)

- Developed responsive and user-friendly web interfaces as part of a 6-week intensive training program. Gained hands-on experience in HTML, CSS, and JavaScript to build dynamic frontend components.

Technical Skills

- **Programming Languages:** Java, Python, C, C++, JavaScript, TypeScript, SQL, Go, Bash/Shell Scripting, MATLAB (Basic)
- **Frontend Development:** React.js, Next.js, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Bootstrap, Material UI, Redux/Redux Toolkit, Context API, React Router, React Hooks, Styled Components, Framer Motion, Responsive UI/UX Design, Formik, Yup, Accessibility, Performance Optimization
- **Backend Development:** Node.js, Express.js, REST APIs, Java (OOP & DSA), MVC Architecture, JWT/OAuth Authentication, Middleware, WebSockets, Multer, API Security, Rate Limiting, Error Handling, Logging, Microservices
- **Databases:** MongoDB, MySQL, PostgreSQL (Basic), Firebase (Basic), Redis (Basic), Mongoose, Prisma (Basic), Sequelize (Basic), SQL Query Optimization, Aggregation Pipelines, Indexing
- **Machine Learning & Data Analytics:** Scikit-learn, pandas, numpy, Matplotlib, Seaborn, TensorFlow (Basic), EDA, Feature Engineering, Data Cleaning, Model Evaluation, Hyperparameter Tuning, ML Pipelines, Predictive Analytics, Time Series Forecasting

- **Cloud & DevOps:** Microsoft Azure, Docker, Docker Compose, GitHub Actions (CI/CD), Vercel, Netlify, Render, Railway, Linux Server Management, Azure DevOps (Basic), Environment Management
- **Tools & Platforms:** Git, GitHub, VS Code, Postman, NPM/Yarn, Figma, Jira, Swagger, Canva, Command Line Tools
- **IoT & Embedded Systems:** Arduino, IoT Sensors, Serial Communication, UART/I2C/SPI Protocols, Real-Time Monitoring, ESP8266/ESP32 (Basic), IoT Prototyping, PCB Design (Basic)
- **CAD & Fabrication:** Autodesk Fusion 360, 3D Printing (FDM), Laser Engraving, Prototyping, Mechanical Assembly, STL/OBJ Export, Slicing, Tolerances
- **Operating Systems:** Windows, Linux (Ubuntu/Debian – Basic)

Positions of Responsibility

Event Organizer / Coordinator

2022- Present

- Managed and executed multiple campus events, coordinating with student teams and faculty to ensure smooth event operations.

Heritage Club President | St. Mary's School

2019-2020

- Led the Heritage Club, organizing cultural events and promoting the conservation of ethnic diversity and customs.

Achievements/Certifications

- ✓ Software Engineering Virtual Experience – **JPMorgan Chase & Co.**
- ✓ AWS Academy Graduate – Cloud Operations (40 Hours), **Amazon Web Services (AWS) Academy**
- ✓ AWS Academy Graduate – Generative AI Foundations, **Amazon Web Services (AWS) Academy**
- ✓ **2nd Position** – *Ignite & Innovate 2025, Vigyanoday, BMIET*
- ✓ **Participant** – *Hack2Hatch Hackathon, Punjab Engineering College (PEC), Chandigarh, March 2025*
- ✓ **Advanced Features in Java:** Working with Sets in Java
- ✓ Career Essentials in Software Development by Microsoft and LinkedIn
- ✓ Java Training Complete Course for Java Beginners (All in One), Udemy, September 2024
- ✓ Data Analytics, IBM SkillsBuild , Microsoft Azure AI ,AICTE & Bharat Intern, Tech Innovator