

# Shubham Raj Sharma

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## Education

**Vellore Institute of Technology-Bhopal**, Bachelor in Computer Science Sept 2022 – May 2026

- CGPA: 8.0/10.0
- **Coursework:** Web Development, Ethical Hacking, Java Programming, Data Structures and Algorithms, Discrete Mathematics and Graph Theory, Calculus and Laplace Transforms, Fundamentals of AI and ML, Applied Linear Algebra, Differential and Difference Equations, Electric Circuits and Systems, Theory of Computation and Compiler.

**Holy Mission High School-CBSE**, 12th Standard April 2020 – March 2022

- Percentage: 82.7
- **Coursework:** English, Physics, Chemistry, Mathematics, FineArts

**Holy Mission High School-CBSE**, 10th Standard March 2019 – March 2020

- Percentage: 87.4
- **Coursework:** English, Science, Sst, Maths, Sanskrit

## Experience

**Software Engineer**, Apple – Cupertino, CA June 2005 – Aug 2007

- Reduced time to render user buddy lists by 75% by implementing a prediction algorithm
- Integrated iChat with Spotlight Search by creating a tool to extract metadata from saved chat transcripts and provide metadata to a system-wide search database
- Redesigned chat file format and implemented backward compatibility for search

**Software Engineer Intern**, Microsoft – Redmond, WA June 2003 – Aug 2003

- Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows
- Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching
- Built an app to compute the similarity of all methods in a codebase, reducing the time from  $\mathcal{O}(n^2)$  to  $\mathcal{O}(n \log n)$
- Created a test case generation tool that creates random XML docs from XML Schema
- Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

## Projects

**Multi-User Drawing Tool** github.com/name/repo

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

**Synchronized Desktop Calendar** github.com/name/repo

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

**Custom Operating System** 2002

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

## Certification

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**MongoDB Associate Database Administrator (MongoDB)**

**IBM Block Chain Fundamentals and Developer ( IBM)**

**The Bits and Bytes of Computer Networking (Coursera - Google)**

**LOR From SkillCraft Technology (ID: SCT/NOV24/5283)**

## Skills

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**Programming:** Java, Python, SQL, JavaScript, Node.JS

**Tools and Technologies:** Git, GitHub, VS-Code, AWS, Postman, IntelliJ Idea, MongoDB Compass and Atlas, SQL Work-Bench,XAMPP, Canva

**Databases:** MongoDB, MySQL, XAMPP

**Language:** English (Professional), Hindi (Native), Maithili (Native), Bhojpuri (Native)