SIMRAN CHAUHAN

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PROFESSIONAL SUMMARY

B.Tech IT engineer with active industry experience at Samsung R&D Institute India, building Smart TV firmware and AI-powered systems in C++, C#, and ASP.NET. Skilled in full-stack development (React.js, Node.js, REST APIs), firmware-level CRUD, and Generative AI/RAG architectures, delivering production-grade features in fast-paced Agile teams. Comfortable in fast-paced Agile environments and passionate about building clean, scalable solutions.

TECHNICAL SKILLS

Languages: Java, SQL, Python, C++, C#, HTML5, CSS3
Web & Frameworks: ASP.NET, React.js, Node.js, Express.js, RESTful APIs
Cloud & Databases: AWS, MySQL, DBMS
Tools: Git, GitHub, Visual Studio Code
AI / Advanced: Generative AI, LLMs, RAG Architecture, AI Agents, ML Fundamentals
Coursework: Data Structures and Algorithms, DBMS, Object-Oriented Programming, Computer Networks, Operating Systems
Soft Skills: Problem-Solving, Communication, Team Collaboration, Adaptability, Time Management

PROFESSIONAL EXPERIENCE

Software Engineering Intern | Samsung R&D Institute India (SRID), Delhi **Jan 2026 - Jul 2026**
Tech Stack: C++, C#, ASP.NET, React.js, REST APIs

- Built and tested an AI-powered chatbot for the WARP project with multi-service backend integrations.
- Developed the Multi-Profile Feature for Samsung Smart TV profile creation, editing, deletion, and switching.
- Designed secure RESTful APIs in ASP.NET/C# for account management, session handling, and user preference sync.
- Implemented firmware-level CRUD operations in C++ and C# for Samsung's proprietary TV OS.
- Built React.js UI for profile management consoles with cross-platform UX alignment to Samsung design guidelines.

ACADEMIC PROJECTS

NAGAM - Smart Municipal Complaint Portal | *Full-Stack Civic-Tech Web Application*
Tech Stack: Node.js, Express.js, MySQL, JavaScript, HTML5, CSS3, REST APIs

- Full-stack civic app automating municipal grievance tracking across garbage, utilities, and street infrastructure.
- Built scalable REST backend with Node.js/Express.js and normalized MySQL schema.
- Implemented JWT-based auth and an AI chatbot module for automated user support.
- Admin dashboard with analytics for case resolution tracking.

BlogCraft | *Full-Stack Blogging Platform* | *React.js, Tailwind CSS, Node.js, Express.js, TypeScript, Prisma ORM, PostgreSQL, Zod*
Live GitHub

- Developed a full-stack blogging platform inspired by Medium, enabling users to create, update, publish, and manage blog posts through a responsive and user-friendly interface.
- Built a React.js frontend with Tailwind CSS and implemented backend REST APIs using Node.js, Express.js, and TypeScript for seamless client-server communication.
- Designed and managed database operations using Prisma ORM with PostgreSQL, implementing Zod-based schema validation for secure API requests and improved data consistency.

PredictWell | *AI-Powered Multi-Disease Prediction System* | *React, TypeScript, Flask, Scikit-learn, Apache PySpark*
Live GitHub

- Developed a full-stack machine learning application for real-time prediction of Diabetes, Heart Disease, and Parkinson's Disease using React + TypeScript frontend and Flask REST APIs.
- Built an end-to-end ML pipeline using Apache PySpark for data preprocessing and feature engineering, and trained Random Forest classification models using Scikit-learn.
- Achieved 83.85% (Diabetes), 80.33% (Heart Disease), and 94.87% (Parkinson's Disease) classification accuracy on held-out evaluation datasets and deployed the application using Netlify and Render.

EDUCATION

B.Tech in Information Technology — Banasthali Vidyapith, Rajasthan **Jul 2022 - Jun 2026**
CGPA: 8.03

Class XII — RAN Public School, UP **Apr 2022**
81.2%

Class X — RAN Public School, UP **Apr 2020**
93.8%

CERTIFICATIONS

AWS Certified Developer - Associate | Amazon Web Services

INTERESTS

Traveling, Journaling, Singing, Creative Writing & Poetry