Samip Chauhan

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Education

The University of Texas at Arlington — Arlington, TX

Bachelor of Science in Computer Science; GPA: 3.44/4.0 — *Expected May 2028*

- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Operating Systems, Programming Languages, Theoretical Concepts of Computer Science, Object-Oriented Programming (Java), C Programming, Linear Algebra, Probability & Statistics

Projects

PrepCall – AI Video Mock Interviewer | *Python, FastAPI, React, PostgreSQL, Gemini API* — 2026

- Built a full-stack web app where a Gemini-powered AI interviewer runs live video interviews (behavioral, concept, and coding), deciding each turn whether to probe, give a hint, or flag a bug by line number
- Used Gemini's multimodal input to read handwritten code held up to the camera, re-transcribe spoken answers for accent robustness, and grade the recorded session by tracing submitted code through 83 test cases
- Implemented JWT auth (email, Google, phone OTP), camera liveness checks, and Neon PostgreSQL storage

Hermes – AI Scam Guard for Older Adults | *Python, FastAPI, Gemini API, MongoDB* — HackUTA 2026

- Co-developed a voice-activated macOS assistant that reads incoming texts and screenshots, classifies them with the Gemini API as safe, suspicious, or scam, explains the verdict aloud, and alerts a family contact by iMessage
- Built the sign-up, sign-in, and consent flows with form validation, backed by per-user accounts stored in MongoDB
- Added a privacy check against macOS Contacts so texts from saved contacts never reach the AI

Co-Live – Roommate Household Manager | *Java, Android, Firebase, Team Project* — 2026

- Facilitating a four-person team building an Android app for shared households with bill splitting, chore tracking, a shared grocery list, and house announcements
- Planned an MVVM architecture on Firebase Auth and Firestore for real-time sync across devices
- Co-authored the UML design and a 36-requirement System Requirements Analysis

Sorting Algorithm Benchmarking Suite | *C, Linux, SSH/SCP* — 2026

- Implemented QuickSort with four pivot strategies (rightmost, middle, randomized, and library qsort), Merge Sort, and Insertion Sort in C using dynamic memory allocation and conditional compilation flags
- Benchmarked inputs up to 1M+ elements (sorted, reversed, random) on a remote Linux server via SSH/SCP

Blood Bank Management System | *Java, Team Project* — 2025

- Collaborated on a Java application connecting blood donors with patients, and designed an inventory module showing real-time unit counts by blood group to match requests with available stock

Agventure – Automated Smart Agriculture Tunnel | *IoT, Embedded Systems, Team Project* — 2023

- Co-developed an automated agriculture tunnel prototype that monitors soil nutrient levels with embedded sensors, sends real-time readings to the farmer's phone, and drives irrigation from live soil data
- Exhibited at LOCUS, a national-level technology exhibition hosted by IOE Pulchowk Campus (Nepal)

Leadership & Activities

Club Representative — 2022 – 2023

CCRC Scientific Circle

- Represented the club in inter-club coordination and helped organize student science and technology activities

Technical Skills

Languages: Java, Python, C, JavaScript, SQL, HTML/CSS, R (basic)
Frameworks & Databases: FastAPI, React, Android SDK, Firebase, PostgreSQL, MongoDB
AI & Developer Tools: Gemini API, Git/GitHub, Linux (Ubuntu), SSH/SCP, GCC/GDB, Android Studio, IntelliJ IDEA, VS Code
Spoken Languages: Nepali (native), English (fluent), Hindi (advanced)