

SAHIL CHANDNA

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SUMMARY

Electronics & Communication Engineering undergraduate with hands-on experience across VLSI test-system development (PXI, NI instrumentation, LabVIEW, TestStand) and full-stack web development (MERN, React, Redux, Node.js). Combines embedded/instrumentation engineering from a MeitY-affiliated semiconductor lab with practical software delivery experience across three internships.

EXPERIENCE

Research & Development Intern | Semi-Conductor Laboratory (SCL), VTAD Division

Jan 2026 – May 2026

Ministry of Electronics & Information Technology (MeitY), Government of India

- Developed and validated PXI-based automated test systems for VLSI device characterization, integrating National Instruments (NI) hardware with LabVIEW and TestStand to enable repeatable, high-throughput test execution.
- Built and debugged automated test sequences for the SC9017 VLSI device, reducing manual setup steps and improving consistency across characterization runs.
- Interfaced PXI chassis modules with test software, troubleshooting instrumentation communication issues to improve overall test reliability.
- Documented the test system architecture and methodology, and presented findings in a formal internship report and technical presentation to the division.

Full-Stack Developer Intern | bydo.io

Jun 2025 – Aug 2025

- Engineered and deployed RESTful APIs using Node.js and Express, integrating third-party services to extend core application functionality.
- Built front-end interfaces with React.js and Redux, streamlining data flow between components to improve interaction consistency across the application.

SDE Intern | Synswift Infotech

Jul 2024 – Aug 2024

- Developed a full-stack web application using the MERN stack (MongoDB, Express.js, React, Node.js) and deployed it to a cloud platform, improving scalability and accessibility.

SDE Intern | Synswift Infotech

Jul 2023 – Aug 2023

- Contributed to early-stage feature development using HTML5, CSS, JavaScript, Node.js, and Express.js.

PROJECTS

PXI-Based Automated Test System for VLSI Devices (SC9017) | Semi-Conductor Laboratory (SCL), Mohali

Jan 2026 –

May 2026

- Designed and implemented an automated test framework for the SC9017 VLSI device using NI PXI hardware, LabVIEW, and TestStand, enabling repeatable, high-throughput characterization sequences in place of manual setup.
- Interfaced PXI chassis modules with test software and resolved instrumentation communication issues, improving overall test reliability.

E-Cell UIET Website | Personal / Club Project

2024 – Present

- Built and maintain the E-Cell UIET website on the MERN stack (MongoDB, Express.js, React, Node.js), improving site functionality and user experience for the university entrepreneurship cell.

String Manipulation Library | Personal Project

- Designed a custom JavaScript library implementing a range of string-manipulation utility methods, published on GitHub.

In Progress

- AI Study Companion** — MERN app that parses an uploaded syllabus PDF with an LLM to extract topics, weekly structure, and exam dates, then auto-generates flashcards, cheat sheets, and quizzes organized into a week-by-week study timeline.
- RAG Document Q&A Tool** — React/Node app for querying large PDFs in natural language; chunks documents into a vector database and uses retrieval-augmented generation so answers stay grounded in the source text with page-level citations.

EDUCATION

Bachelor of Technology (B.Tech), Electronics & Communication Engineering UIET, Kurukshetra University - Aug 2026	Nov 2022
High School — PCM, Computer Science, English Gita Niketan Awasiya Vidyalaya, Kurukshetra 90% overall in Grade 10	2018 – Mar 2022
Middle School Gita Niketan Awasiya Vidyalaya, Kurukshetra 10 CGPA in Grades 7 & 8	2015 – Mar 2018

CERTIFICATIONS

- Data Science for Engineers — NPTEL, IIT Madras (2024) - Introduction to Data Science — Cisco (2023) - Google Cloud Computing Foundations: Cloud Computing Fundamentals — Google (2023) - Google Cloud Computing Foundations: Data, ML & AI in Google Cloud — Google (2023) - Google Cloud Computing Foundations: Infrastructure in Google Cloud — Google (2023) - Google Cloud Computing Foundations: Networking — Google (2023) - Introduction to Generative AI — Google (2023) - HTML Fundamentals — Sololearn (2019)	
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LEADERSHIP & INVOLVEMENT

Designs Team Lead E-Cell, UIET Kurukshetra Direct a team of 5 designers delivering 50+ multimedia projects annually using Adobe Creative Suite and Figma, growing user engagement by 25%.	Dec 2023 – Present
Web Developer E-Cell, UIET Kurukshetra Maintain and enhance the E-Cell UIET website using the MERN stack, improving user experience and site functionality.	Feb 2024 – Present

SKILLS

Test & Instrumentation: PXI, NI Instrumentation, LabVIEW, NI TestStand, VLSI Device Testing
Web & Software: JavaScript, React.js, Redux, Node.js, Express.js, HTML5, CSS, MySQL, MongoDB
Cloud & Tools: Google Cloud Platform (GCP), VMware, Git, Figma, Adobe Creative Suite
Engineering: C, Python, MATLAB, Arduino, SOLIDWORKS, Operating Systems
Languages: English, Hindi, Punjabi, Sanskrit