

SNEHIL SUNDRIYAL

Course : M.Sc., Physics and B.E., Electrical and Electronics Engineering, 2027

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CGPA : 6.37



ACADEMIC DETAILS

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	AKSIPS 41, Chandigarh	CBSE	95.8 %	2022
CLASS X	Saupin's School, Chandigarh	CBSE	93.2 %	2020

Subjects / Electives	Computer Programming, Internet of Things, Digital Design, Microprocessors & Interfacing
Technical Proficiency	Go (Programming Language), Microservices, RESTful WebServices, gRPC, React.js, PostgreSQL, MongoDB, Tailwind CSS, Full Stack Development, Postman, C Programming, C++, Git, Github, Node.js, Express.js, NodeMCU, Arduino IDE

INTERNSHIPS

Research Intern, CSIR - CSIO	May 2025 - Jul 2025
<ul style="list-style-type: none">Simulated optoelectronic and photonic devices including waveguides, couplers, fibers, and rectifiers using Ansys Lumerical software suites for design optimization and performance analysis.Modeled light propagation and device integration in advanced photonic circuits with INTERCONNECT for circuit-level simulations and FDTD for time-domain electromagnetic analysis.Performed modal analysis and propagation studies using MODE solver for complex waveguide structures and optical coupling characterization in integrated photonic systems.	

PROJECTS

Go Movies - Web Development, Database Management	Jun 2025 - Present
<ul style="list-style-type: none">Developed full-stack movie database web application using Go backend with PostgreSQL database integration for storing and managing movie information, descriptions, and genre classifications.Built comprehensive movie management system with React frontend enabling users to browse, add, edit, and filter movies by genres with dynamic data retrieval from database.Implemented CRUD operations and responsive UI with RESTful API architecture connecting React components to Go backend for seamless movie catalog functionality and genre-based filtering.Technologies Used: Golang, React, PostgreSQLGithub Repository	

SaaS AI Platform - Web Development	Jun 2025 - Jul 2025
<ul style="list-style-type: none">Developed full-stack AI-powered image processing SaaS platform implementing restoration, recoloring, object removal, generative filling, and background removal features.Reduced AI content generation time by 25% through optimized prompt engineering and model interaction.Achieved an average of 95% accuracy in AI-generated code snippets for common programming tasksTechnologies Used: Next.js, TypeScript, MongoDB, Clerk, Cloudinary, Stripe, Shadcn, TailwindCSSGitHub repository	

POSITION OF RESPONSIBILITY

Headboy - Saupin's School	Apr 2019 - Feb 2020
<ul style="list-style-type: none">Led and represented 2000+ students as Head Boy facilitating administration-student communication, organizing assemblies, and driving student council initiatives for improved campus culture.Coordinated major school events and disciplinary programs including annual cultural festivals, sports days, and peer mentoring systems across the institution.Maintained academic excellence while serving as leadership role model promoting integrity and high performance standards among junior students.	

LANGUAGES KNOWN

English, Hindi