Arvind Singh

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Education

Guru Gobind Singh Indraprastha University	New Delhi, India
B.Tech. in Computer Science and Engineering **CGPA: 8.5/10**	*2023 - 2027*

Technical Skills

Languages: C++, Python, JavaScript, Java, SQL
Frontend: React.js, Tailwind CSS, Redux, HTML5, CSS3
Backend: Node.js, Express.js, FastAPI, Flask
Database: MongoDB, MySQL, PostgreSQL, Supabase
Tools & Platforms: Google Cloud, Docker, Git/Github, Rest APIs, Linux, VS Code,
Coursework and Concepts: Data Structures and Algorithms (DSA), Database Management Systems (DBMS), Object-Oriented Programming (OOP), Operating System(OS), System Design, Software Engineering
AI/ML: Machine Learning tools, LLM Integration, Generative AI, Prompt Engineering

Experience

Software Development Intern	06 2025 – 07 2025
DRDO	*New Delhi, India*

- Developed and deployed a secure full-stack learning platform providing notes, video lectures, mock tests, and other study resources, improving accessibility and efficiency for researchers and other users.
- Integrated real-time features, reducing manual reporting and data access time by 30%, and managed collaborative development with version control CI/CD with Git/GitHub
- Contributed to an AI/ML-focused project, gaining hands-on experience in integrating machine learning models and LLMs into product workflows.

Software Engineering Job Simulation	02 2025 – 02 2025
Wells Fargo	*Remote*

- Designed and implemented a financial data model with Spring Boot & JPA, enabling object-relational mapping.
- Built ERD for investment management systems and integrated with relational databases.

Projects

LetsChat | *React.js, Tailwind CSS, Node.js, Express.js, MongoDB, GetStream, Git*   GitHub | Live

- Built a real-time language chat web application and deployed on Render.
- Delivered 99.9% message success rate with optimized routing and database queries.
- Engineered a high-performance backend capable of handling 100+ API calls/sec, reducing latency by 35% through optimized routing and database queries.

SayDocs | React.js, Tailwind CSS, Quill.js, Git/Github, JavaScritp, Vite   GitHub | Live

- Developed a speech-to-text web app using React.js, Quill.js and React-Speech-Recognition library enabling users to transcribe speech with 90% accuracy and edit content in real time.
- Implemented multi-format export (PDF, Word, TXT) supporting 100+ document generations in testing.
- Optimized performance with Vite-based build and responsive UI, reducing load time by 40% compared to default setups.

SiteScope | *Express.js, Postgre SQL, Playwright, Gemini, Postman, Git/GitHub, JavaScript*   GitHub

- Built a backend with Playwright for web scraping and Integrated Gemini LLM for content summarization.
- Optimized Supabase (Postgres) schema for efficient data storage and quick retrieval.
- Developed and tested RESTfull APIs with Postman, achieving 99% success in automated tests and ensuring production-ready quality.

Achievements

- Mentor in GSSOC 2025 – Guides contributors in React.js, Node.js, Express.js, MongoDB, and AI integrations, reviewing code, suggesting features, and helping them build scalable open-source projects.
- Google Arcade 2024 Gold Level achiever with 25,000+ points in cloud labs and skill badges in AI and GCP.
- Solved over 500+ problems across platforms like LeetCode, GeeksforGeeks, and CodeChef.
- Contributed to major open-source programs including GSSoC 2024 and SSOC 2025.