Surbhi Singh

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EDUCATION

- **Chitkara University** — Rajpura, Punjab
  B.E. in Computer Science; CGPA: 8.93 — *2023 - 2027*

EXPERIENCE

- **Quark Software**
  Software Engineering Summer Intern — *June 2025 – July 2025*
  - **Full-Stack Development**: Designed, developed, tested, and optimized production-ready full-stack web applications using Angular, Node.js, and Express, with a focus on scalability, performance, and security.
  - **Backend API Development**: Built secure REST APIs with robust error handling, efficient request processing, and safe data access patterns suitable for real-world deployment.
  - **OAuth 2.0 Integration**: Implemented OAuth 2.0 authentication flows including access tokens, redirects, and protected API routes, gaining hands-on experience with modern security standards.
  - **Frontend Engineering**: Developed reactive Angular UI components with performance optimizations such as infinite scrolling, state handling, and resilient UX error management.
  - **Agile Collaboration**: Collaborated in an agile development environment by breaking down requirements, debugging production-level issues, and delivering features within defined timelines.
  - **Production Readiness**: Gained exposure to deployment readiness, performance tuning, and production debugging, bridging the gap between academic learning and live systems.

CERTIFICATION

- **AWS Certified Cloud Practitioner** — Amazon Web Services
  Verify Certificate

- **AWS Certified AI Practitioner** — Amazon Web Services
  Verify Certificate

ACHIEVEMENTS AND RESPONSIBILITIES

- **Cloud Team Member - Google Developers Group (GDG) On-Campus, Chitkara University (Sept 2025 - Present)**: Mentored and supported 100+ learners during a structured cloud learning program, contributing to the campus achieving Tier-1 Cloud Campus recognition through technical guidance, doubt resolution, and consistent learning support.
- **Winner - Tier One, Google Cloud Study Jams (GDG On-Campus) - Oct 2024**: Recognized for top performance in hands-on Google Cloud labs involving virtual machines, containerization, BigQuery, and Kubernetes, demonstrating strong practical cloud skills and problem-solving ability.

SKILLS

- **Programming Languages:** Java, Python, JavaScript

- **Data Structures & Algorithms** : Problem Solving, Complexity Analysis, Time & Space Optimization

- **Web & Backend Development:** HTML5, CSS3, React.js, Angular, Node.js, Express.js, REST APIs

- **Databases:** MongoDB, MySQL, PostgreSQL, Redis

- **Cloud & DevOps:** AWS (EC2, S3, Lambda, SNS, SQS), Docker

- **Tools:** Git, GitHub, Linux, VS Code, Postman