

# Surbhi Singh

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## EDUCATION

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- **Chitkara University** Rajpura, Punjab  
*B.E. in Computer Science; CGPA: 9.06* 2023 - 2027

## EXPERIENCE

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- **Quark Software** June 2025 – July 2025  
*Software Engineering Summer Intern*
  - **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

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

## ACHIEVEMENTS AND RESPONSIBILITIES

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- **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

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- **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