

# SIDDHARTH SINGH

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## EDUCATION

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**New York University** | *New York, NY*

September 2023 - May 2025

Master of Computer Science

GPA: 3.61/4.0

- **Relevant Coursework:** Data Science, Cloud Computing, Database Systems, Machine Learning, Algorithms

**SRM Institute of Science and Technology** | *Chennai, India*

July 2017 - May 2021

Bachelor of Computer Science and Engineering

GPA: 8.10/10

## EXPERIENCE

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**Cognizant Technology Solutions**

July 2021 - August 2023

Google Cloud Engineer

*Hyderabad, India*

- Enhanced team performance by 35% through customer management and scalable system implementations on GCP, including Compute Engine and Kubernetes Engine. Managed infrastructure using Cloud Deployment Manager and Terraform.
- Achieved a 40% increase in operational efficiency by developing GCP-based solutions for diverse clients, and optimizing cloud-native applications with BigQuery, Cloud Functions, and Firebase.
- Significantly improved the efficiency of 8 new hires by over 50% through dedicated GCP training and mentoring, demonstrating expertise in cloud migrations and deployments with minimal downtime.
- Maintained a notable 99.9% system availability rate for major clients including Spotify, Netflix, and Bank of India, by orchestrating and maintaining seamless technical operations and continuous system continuity on GCP.

**Webtech Infomedia Pvt Ltd.**

June 2019 - August 2019

Web Development Intern

*Mumbai, India*

- Created a feature-rich web interface for smart device management using HTML, Bootstrap, and Node.js, integrating energy consumption analytics, device control, model selection, and interactive data visualization.
- Established security protocols, including pooled connections, hashed passwords, and SQL injection/XSS defenses, resulting in enhanced data integrity and reduced security risks in a multi-user environment. [GitHub](#)

## PROJECTS

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**Taleweaver:**

- Engineered an application, integrating AWS Rekognition and OpenAI's GPT for AI-driven image recognition, natural language processing, and creative story generation.
- Implemented secure user authentication and sophisticated session management using AWS Cognito. Integrated AWS API Gateway for streamlined RESTful API interactions.
- Hosted on AWS EC2, leveraging AWS Lambda for scalable, serverless backend operations.
- Designed an intuitive user interface for enhanced user engagement and story management. Utilized AWS DynamoDB for high-performance, low-latency data storage and retrieval. [Github](#)

**Serverless Dining Concierge Chatbot:**

- Implemented a serverless, microservice-driven web application, specifically a Dining Concierge chatbot that provides restaurant suggestions based on user preferences, using Natural Language Processing-powered applications, AWS S3, API Gateway, and Lambda functions.
- Developed a suggestions module decoupled from the Lex chatbot, which pulls a message from the SQS queue, fetches a random restaurant recommendation from Elasticsearch and DynamoDB, formats them, and sends them over an email using SES, automated by a CloudWatch event trigger. [GitHub](#)

## TECHNICAL SKILLS

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**Programming Languages**

Python, C, SQL, HTML, JavaScript

**Database Systems**

Redshift, CloudSQL, Cloud Spanner, AlloyDB, BigQuery, BigTable, DynamoDB, RDS

**Certifications**

Professional Cloud DevOps Engineer, Associate Cloud Engineer, Deep Learning

**Other Technologies**

GCP, AWS, Docker, Kubernetes, Git, NumPy, Pandas, Tensorflow, Redis