

SIDDHARTH SINGH

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EDUCATION

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

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

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

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