# SIDDHARTH SINGH

+1(929) 689-4615 ⋄ New York, NY

[sms10221@nyu.edu](mailto:sms10221@nyu.edu) ⋄ Linkedin ⋄ GitHub ⋄ Portfolio

## 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, Algorithms, Database Systems, Machine Learning, Information Security and Privacy, Big Data, Operating Systems, Open-Source

**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 GCP implementations, including Compute and Kubernetes Engines.
- Engineered CI/CD pipelines using Cloud Build and Cloud Run, enabling continuous integration and delivery for cloud-native apps. Designed and implemented ETL processes with Dataflow and BigQuery for seamless data transformations and integration.
- 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.
- Boosted system reliability and deployment speed by 30% through automating infrastructure on GCP using Deployment Manager, Terraform, and Kubernetes, reducing downtime and improving scaling.

## 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

**Smart Home Energy Management System:**
- Designed and implemented a user-friendly web interface using HTML, Bootstrap, and Node.js, significantly improving the ease of managing smart devices and analyzing energy consumption for users.
- Developed and integrated advanced security protocols, including pooled connections, hashed passwords, and defenses against SQL injection and XSS attacks, ensuring robust protection of user data and system integrity.
- Created a comprehensive system for managing smart devices, enabling efficient control, seamless model selection, and interactive data visualization, facilitating better energy consumption insights for users. 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, React |