

SIDDHARTH SINGH

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EDUCATION

New York University | *New York, NY*

September 2023 - May 2025

Master of Computer Science

GPA: 3.7/4.0

- **Relevant Coursework:** Data Science, Cloud Computing, Algorithms, Database Systems, Machine Learning, Information Security and Privacy, Big Data, Operating Systems, Open Source and Software Development

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

July 2017 - May 2021

Bachelor of Computer Science and Engineering

GPA: 8.10/10

EXPERIENCE

New York University, New York, USA | *Web Developer*

August 2024 - Present

- Increased site engagement by 20% by developing and maintaining a modern department website with a Java-based backend and React frontend, optimizing functionality, load times, and responsive design.
- Improved faculty accessibility and visibility by 30% by creating personalized faculty websites with secure login features, custom layouts, and seamless integration, enhancing the user experience for students and faculty.

Cognizant Technology Solutions, Hyderabad, India | *Cloud Engineer*

July 2021 - August 2023

- Increased team efficiency by 35% by designing and implementing scalable GCP-based infrastructure using Compute Engine, Kubernetes Engine, and automating workflows to streamline cloud operations.
- Boosted deployment speed and reliability by 40% through building robust CI/CD pipelines with Cloud Build, Cloud Run, and Terraform, ensuring seamless continuous integration and delivery for cloud-native applications.
- Optimized cloud infrastructure and data workflows by developing ETL pipelines with Dataflow and BigQuery, automating provisioning with Kubernetes and Deployment Manager, and enhancing scalability and uptime.
- Enhanced cloud security and compliance by architecting IAM roles, VPC peering, and firewall configurations in GCP, achieving 100% audit readiness and reducing security vulnerabilities by 30%.

PROJECTS

CryptoStream AI | *Apache Kafka, Apache Spark, Cassandra, Streamlit, Grafana, Docker:*

- Engineered a real-time data pipeline using Apache Kafka, Spark, and Cassandra, to process, transform, and store high-velocity streaming data from the Coinbase API, enabling real-time analytics and low-latency querying.
- Developed interactive dashboards with Streamlit and Grafana, integrating machine learning models like LSTM, ARIMA, VAR, and Moving Averages for forecasting, and deployed a scalable solution using Docker. [GitHub](#)

HarmonyAI | *Slack Bolt, Trello API, Gmail API, Google Calendar API, CircleCI:*

- Developed an AI-powered productivity assistant integrating Slack, Trello, Gmail, and Google Calendar APIs, automating tasks and calendar sync. Cut manual coordination by 50% using Slack Bolt and Google API client.
- Designed a system with automation tools enabling task creation, board management, and checklists on Trello, while summarizing unread Gmail messages to Slack, boosting task tracking and visibility by 40%. [GitHub](#)

Taleweaver | *AWS Rekognition, OpenAI API, AWS EC2, AWS Lambda, DynamoDB, Cognito:*

- Built an AI-driven application leveraging AWS Rekognition and OpenAI API for image recognition, natural language processing, and story generation, hosted on AWS EC2 with a scalable serverless backend using Lambdas.
- Streamlined user authentication and data management by implementing AWS Cognito, DynamoDB, and API Gateway, ensuring secure, low-latency operations and seamless RESTful API interactions. [Github](#)

Serverless Dining Concierge Chatbot | *AWS Lex, Lambda, API Gateway, DynamoDB, ElasticSearch:*

- Designed and deployed a serverless, microservices-based Dining Concierge chatbot using AWS Lex, Lambda, API Gateway, and S3, leveraging Natural Language Processing to deliver personalized restaurant recommendations.
- Automated restaurant suggestion workflows by 50% through integration with SQS, ElasticSearch, DynamoDB, and SES, orchestrated with CloudWatch events for efficient email notifications and data retrieval. [GitHub](#)

TECHNICAL SKILLS

Programming Languages Python, C, C++, Java, 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, PyTorch, Redis, React, CircleCI