

# Siddhesh Sheth

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## EDUCATION

### Master of Science

Indiana University Bloomington

GPA: 3.95

Courses: Software Engineering, Applied Algorithms, Information Visualization, Computer Networks, Data Mining, Advanced Database Technologies, Elements of AI, Applied Machine Learning, Security for Networked Systems

Aug 2022 – May 2024 | Bloomington, United States

### Bachelor of Engineering in Computer Science and Engineering

Pune University

GPA: 9.20/10

Courses: Object Oriented Programming, Algorithms and DSA, Web Technology, Database Management Systems, Cloud Computing, Data Mining and Warehousing, Theory of Computation, Artificial Intelligence

Jul 2017 – Jul 2021 | Pune, India

## PROFESSIONAL EXPERIENCE

### Graduate Teaching Assistant

Indiana University, Bloomington

- Monitored and graded more than 250 students for Computer Networks on a wide range of networking fundamentals.
- Handled various Domain Name Systems (DNS), Internet Protocol Suite (TCP/IP), User Datagram Protocol (UDP), Network Security · FTP, Simple Mail Transfer Protocol (SMTP), and other terminologies.

Aug 2023 – Dec 2023 | Bloomington, USA

### Full Stack Engineer Intern

Scotfin Tech

- Web page development and modification in existing databases, traffic analysis, and reporting trends.
- Engineered a visually captivating webpage by leveraging JavaScript, CSS, and HTML to seamlessly fetch and display images, resulting in a 40% increase in user engagement and a 25% decrease in bounce rate.
- Analyzed the trends of various tax resolution firms and refined the website accordingly.

Jul 2023 – Aug 2023 | Indianapolis, USA

### Software and Database Engineer

Accenture

- Superintended migration, update, and backing up Databases of AT & T.
- As the lead RSA Archer admin, granted access roles and efficiently handled over 100 clients by resolving an average of 50 queries per week, and applied an optimized logical framework for a remarkable 75% reduction in recurring issues.
- Pivotal role in package transfer and database handling, effectively managing over 100 SQL Server databases, resulting in a seamless transition with zero data loss and a 20% reduction in migration time.

Aug 2021 – Aug 2022 | Pune, India

## PROJECTS

### Stock Market Real-Time Data Analysis Using Kafka

Jun 2023 – Jul 2023

- Performed extraction of real-time stock market data in .csv format and then launched an EC2 VM instance for the Linux environment.
- Instantiated a zookeeper, created a topic within a producer, then delivered it to the consumer via Kafka cluster and then into S3.
- I used the AWS Crawler and Glue feature to generate the table and used AWS Athena further to query and get real-time analysis.

### Breast Cancer Detection using Machine Learning

Dec 2020 – Apr 2021

- For the final year capstone project, I worked on obtaining and preprocessing datasets (TCGA, Histopathology) for classifying datasets comprising images and texts.
- Under CNN, convolution and pooling reduce the layers during the pooling stage to maximize accuracy.
- Applied RFE (Recursive Feature Elimination technique) to take only the optimum features thereby uplifting the accuracy of the model by 7-8%.

### Blood Bank Donation System

Feb 2018 – May 2019

- Established and developed two SQL databases and schemas, one for patients' personal history and the other for blood bank and donor details.
- Implemented comprehensive CRUD operations, guaranteeing ACID properties.
- Tested a multitude of test cases utilizing platforms such as Selenium IDE, WebDriver, and Selenium Grid, resulting in improved system performance and seamless user experience.

## SKILLS




**Databases and Languages** (SQL, MySQL, PostgreSQL, MongoDB, DynamoDB, AWS Athena, RedShift, Big Query, Firebase),

**Programming Languages** (Python, R, C++, C, Java), **Cloud** (AWS, Microsoft Azure, GCP),

**Platforms & Security** (RSA Archer, SecureID, SSMS, Jupyter, Anaconda, VS Code, Eclipse, Google Colab),

**Other Tools and Technologies** (ReactJS, HTML, CSS, JavaScript, Bootstrap, PySpark, Kafka, Airflow, Kubernetes, Hadoop, VS Code, PyCharm, Tableau, Power BI, Git, JIRA, Linux, Flask)

## CERTIFICATES

- **AWS Certified Cloud Practitioner**  (57H7X4627EQEQ8W8),
- **ICSI | CNSS Certified Network Security Specialist from International Cybersecurity Institute, UK**  ,
- **Review paper "Stock Prediction using Sentiment Analysis"**  ,
- **A research paper on "Breast Cancer Detection using Machine Learning" was also published in springer.** 