

## Education

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### Wayne State University

Master of Science (M.S.) in Computer Science

Detroit

August 2022 - December 2023

### Dhirubhai Ambani Institute of Information and Communication Technology

B.Tech. (Honours) in ICT with Minor in Computational Science

Gandhinagar

July 2013 - May 2017

## Skills

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**Programming Languages:** C#, Java, Javascript, Python, SQL, C, Bash

**Frameworks & Libraries:** .NET Core, Node.js, Angular, React.js, Vue.js, Express, Django, Flask, ASP.NET

**Databases & Search Engines:** SQL Server, MySQL, MongoDB, Elasticsearch

**Tools & Platforms:** Docker, AWS, Terraform, Jenkins, Git, CircleCI, Kibana, Kafka

**Methodologies:** Agile, CI/CD, REST API Development, Unit Testing, TDD

## Experience

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### Rocket Mortgage

Software Engineer Intern (Business Application Engineering)

Detroit

May 2023 - August 2023

- **Tool Development:** Engineered a verification mismatch tool, reducing loan-related error rates by 20%, leveraging Node.js, SQL Server, Angular, Terraform, and AWS services (SQS and Lambda).
- **License Transition:** Instrumental in license transition for AMP, elevating licensing efficiency with SQL Server, .Net Core, and CircleCi.
- **API Upgrade:** Facilitated the upgrade to a cloud-based API, resulting in a 15% reduction in server response times.

### FactSet

Software Engineer 3 (Formula Management)

Hyderabad

May 2020 - December 2021

- **Team Leadership:** Directed a team of 3 engineers in refining Formula Management products, boosting financial analyst productivity by 35%.
- **Continuous Improvement:** Delivered feature deployment cycle reductions by 40% and increased release frequency by 50% through CI/CD and Agile methodologies.
- **Performance Optimization:** Implemented parallel processing in .Net Core and Redis, achieving a 30% increase in API processing speed.
- **Testing Protocol:** Introduced "Formula Unit Testing", which bolstered code quality and reduced issue rates by 30%.

Software Engineer 2 (Central Logging Platform)

May 2018 - April 2020

- **Cluster Management:** Oversaw Elasticsearch clusters managing 2 billion logs daily, contributing to a 10% improvement in system uptime.
- **System Migration:** Led AWS migration for Central Logging Platform, achieving a 20% improvement in data processing times and a 140% increase in logging capacity.
- **Library Development:** Compiled logging libraries increasing total support and coverage to 90% across different programming languages.

Software Engineer 1 (Central Logging Platform)

July 2017 - April 2018

- **Portal Creation:** Developed a self-service logging portal, cutting developer onboarding time by 50%.
- **Toolset Enhancement:** Updated team toolset capabilities, leading to a 15% improvement in monitoring efficiency and a 20% reduction in issue resolution times.

## Projects

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- **Big Five Predictor:** Created a Python-based predictive model to determine the Big Five personality traits, applying logistic regression to the IPIP-FFM dataset. Enhanced the predictive power through advanced data preprocessing and feature engineering, discerning characteristics like Openness and Neuroticism. Tech: Python, Scikit-Learn, Pandas [Link](#)
- **Election Sentiment Analyzer:** Performed an in-depth sentiment analysis of the 2020 USA Election by processing Twitter data with Python. Aimed to extract public sentiment and opinion trends, demonstrating expertise in NLP and data visualization. Tech: Python, NLP, Matplotlib, Seaborn [Link](#)
- **Quantum Factorizer:** Implemented Shor's Algorithm for quantum computing using the Qiskit platform, focusing on efficient integer factorization pivotal in cryptography. This project showcased the application of quantum computing in resolving complex computational issues. Tech: Qiskit, Python [Link](#)
- **Cybersecurity ML Detector:** Devised a Python project leveraging machine learning to enhance a SIEM tool for cybersecurity, using the CICIDS2017 dataset for network intrusion detection. This innovation improved threat detection capabilities in real-time. Tech: Python, Machine Learning, Jupyter Notebook [Link](#)

## Achievements and Positions of Responsibility

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- **Dean's List Recognition:** Secured a place on the Dean's List at WSU for academic excellence.
- **Research Publication:** Disseminated research findings in the IEEE Computer Society Digital Library, contributing to the 2017 International Conference on High-Performance Computing (HiPC).
- **Academic Tutoring:** Provided tutoring in C++ and Python, aiding undergraduates during Fall and Winter 2023 at WSU.