Curriculum Vitae

Tirth Pandya

**> Morgan Stanley |** Manager [Bangalore]

**< Nirma University |** B.Tech in Computer Engineering [Ahmedabad]

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# Objective

# To step up to the industry and hone diverse technical and non-technical skills to collectively achieve professionalism and enhance the society.

# Skills

**Technical Skills |** Programming Languages **:**

* *C# / .NET Framework and .NET Core*
* *Python ;*
* *Java ;*
* *C++ / C ;*
* *Angular / HTML / CSS / JS;* + more.

**Technical Skills |** Foundations **:**

* *Machine Learning + Deep Learning*
* *Cloud Technologies (Azure Certified Associate Developer)*
* *Prompt Engineering for Large Language Models*
* *Data Structures and Algorithms*
* *Object Oriented Programming*
* *DBMS and OS Basics*
* *Basic Web Designing*
* *Android App Development*
* *Embedded Technologies : Arduino, R-Pi*  + more.

**Soft Skills |** Social & Personal :

* *Leadership and Project Management*
* *Proficient Communication Skills*
* *Creative and Innovative thinking with a Problem Solving Mindset*
* *Public Speaking and Motivational Training* + more.

# Experience @ Morgan Stanley

**Experience |** Professional Career :

* *Manager @ Morgan Stanley [ Feb 2022 - Now ]*
* *Senior Technology Associate @ Morgan Stanley [ Feb 2021 - Jan 2022 ]*
* *Technology Associate @ Morgan Stanley [ Feb 2020 - Jan 2021 ]*
* *Technology Analyst @ Morgan Stanley [ Aug 2019 - Jan 2020 ]*
* *Technology Intern Analyst @ Morgan Stanley [ 8 weeks : May-July 2018 ]*

**Experience |** Summary :

* **Journey to Morgan Stanley :** *Currently working as a .NET Developer with the Financial Planning Team of Wealth Management Technology on the Goals Planning System (GPS) Analytics Engine Team. I joined the team as a summer intern in 2018 and got the FTE offer in Jan 2020 after TAP training and since then have been a part of the same team working on innovations and business deliverables.*
* **Innovative Projects @ MS :**
  + **Tesseract with OpenAI APIs [RAG for Goals Planning System] (2023-24)** *-GenAI-*

*Developed a POC project with the team in 2 days as a part of GenAI Hackathon Project powered by OpenAI ChatGPT turbo-4-32k chat completions and embeddings APIs and built a retrieval-based search, summarizing, visualizing and trend analysis tool for enabling GPS users to query and explore client data visually and download it as reports thus reducing retrieval time by more than 5x*

* + **Lex Ingenium [Rules Engine Framework] (2021-23)** *-MS GRIT Innovation Awardee 2022-*

*Implemented parallel, centrally accessible and version control based business rules processing framework to support planning applications to run 60+ rules in under 5ms and also decoupling rules from business layer in API and thus reducing time-to-market by 90%*

* + **The HEART [Handling Event Asynchronously in Real Time] Framework (2020-21)** *-MS WMT PEC Recognition 2021-*

*Event-driven messaging eco-system that enabled 5+ planning fleet teams to act on real time events drastically reducing data recycle time from 23 hours to 2 ms and improving workflow SLAs by 40 %*

* + **Analytics Engine on Azure Public Cloud (2020-2021)** *-MS WMT Cloud Recognition 2021-*

*Worked with my team in modernizing the core Analytics Engine to migrate from on-prem to Azure public cloud within 6 months and setting up first-in class hybrid setup that intelligently routes traffic between the 2 environments based on request type and burst loads with scaling support of up to 1 million TPH and SLA optimized to under < 1 s which included on-prem to cloud routing latency and core processing time for 10,000 Monte Carlo Simulations*

* **Tech Stack @ MS :** *Azure, .NET Framework, ChatGPT, Windows Services, IBM MQ, Python*

# Experience @ Nirma University

**Experience |** Workshops :

* *IIT Bombay - Android App Development (2015)*
* *IIT Bombay - Big Data and HADOOP (2016)*
* *Nvidia Deep Learning Workshop @ Nirma University (2018)*

**Experience |** Academic Specialization :

* *Minor Specialization (IoT and Cloud Computing) [2017-19] - Nirma University*
* *Microsoft Azure Certifications :*
  + ***AZ-303 : Azure Technological Solutions Architect***
  + ***AZ-204 : Azure Developer Associate***
  + ***AZ-900 : Azure Fundamentals***

**Experience |** Projects :

* **Drone.AI | Major Project using Deep Learning in Computer Vision for Drones (Python)**

*Exploring challenges and applying deep learning techniques to solve the tasks of Image Denoising, Object Detection and Semantic Segmentation with MU-Net Fusion, RetinaNet and Fully Convolutional Net respectively in drone-based datasets (2019)*

* **Stock Market Prediction using Deep Learning (Python)**

*Applying techniques such as LSTM, SVM, Random Forest, DBN and ARIMA with Technical Analysis of Financial Market for extracting the Indicators and predicting Stocks (2018)*

* **Facial Features Recognition (Python & OpenCV)**

*Using powerful Machine Learning tools and CV Algorithms to detect the various features of a Human Face (2017-18)*

* **Optical Character Recognition based Sudoku Solver (Android App)**

*An amalgamation of Tesseract’s power to extract numbers from Sudoku Problem Matrix on paper, and advanced algorithms like Backtracking to solve the Sudoku in Android Studio IDE (2017)*

* **IIT Bombay - Techfest Competition Project**

*Advanced Line Follower and Maze Solving Bot - Team of 3 (2016)*

**Experience |** Management :

* ***Vice President*** *- Association of Computer Engineering Students (ACES) Nirma University (2018-19)*
* *Conducted Deep Learning Workshop in NuTech Nirma University (2018)*

**Experience |** Community Service :

* *Participate annually in charity drives for the underprivileged and animal welfare [MS GVM] (2022-24)*
* *Volunteered in the Clothes Donation Drive for IHRC [ Himatnagar, Gujarat] (2016)*
* *Participated in various acts of service [ Fundraising and Serving Food ] for the economically minor people under the YouNeed Organisation - Nirma University (2016)*

# Education

## Undergraduate Degree : B.Tech | August '15 - May '19

### Nirma University, Ahmedabad *- B.Tech : Computer Engineering*

Aggregate / CGPA : 9.52

| Year | SPI | CPI |
| --- | --- | --- |
| 2015-16 | 9.72 | 9.72 |
| 2016-17 | 9.35 | 9.52 |
| 2017-18 | 9.3 | 9.43 |
| 2018-19 | 9.8 | 9.52 |

## School : Class 10th and 12th (CBSE) | April 2013-15

### Ryan International School, Surat *- Science Stream ( PCM )*

| Class | Session | Percentage |
| --- | --- | --- |
| 10 | 2012-13 | 95% |
| 12 | 2014-15 | 93.8% |

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# Awards & Recognition

* ***Institute Topper @ Nirma University | Gold Medalist*** *- B.Tech '19 Batch (2015-19)*
* ***B.Tech Computer Engineering Topper @ Nirma University | Gold Medalist*** 
  + *B.Tech C.E. 1st Year (2015-16)*
  + *B.Tech C.E. 3rd Year (2017-18)*
  + *B.Tech C.E. 4th Year (2018-19)*
* ***Outstanding Paper Award******- “Image Denoising with Self Adaptive Multi-UNET Valve”*** *|*

*10th International Conference on Soft Computing for Problem Solving -* ***SocProS 2020***

* ***Winners*** *- Duet Singing Vaudeville ‘18 (2018) : Nirma University*
* ***Distinction*** *- Advanced Line Follower Bot Challenge | Lead Coder for the Team :* ***IIT***

***Bombay TechFest (2016)***

* ***Ryan Prince | Best Student Award (2015) :*** *Ryan International School (CBSE) Surat.*
* *Recognized as a part of the* ***GPS 2.0 team*** *for* ***winning******the******Barron’s Industry Award for***

***Innovation @ Morgan Stanley (2022)***

# Hobbies

* ***Inventing and Improvising*** *- Big and Small Stuff [ Deeply passionate about AI & Robots ]*
* ***Gaming*** *- Console and PC Games [ Big Fan of the Uncharted Series, GTA, FIFA and more ]*
* ***Music*** *- Listening, singing and playing the Guitar (sometimes the Keyboard too)*
* ***Movies******&******TV******Series*** *- The Interesting ones [ SUITS, SHERLOCK and alikes]*
* ***Cooking*** *- Mostly Indian, Chinese and Sandwiches.*
* ***Riding*** *- Touring on my MotorCycle [ Duke 390 ]*
* ***Sports*** *- Badminton, Football and Cricket.*
* ***Photography*** *and Post-Capture Editing.*

# Best O’ Thoughts - Quotes

* *"Everything happens for a reason, maybe Your being here and reading this too :)"- T (2020)*
* *“You are the Author, the World is your Stage and this Life - your Magnum Opus ” - T (2018)*
* *“Be the flame that Ignites Life in the Darkest Hour ” - T (2019)*
* *“In all that we Code, we Quote” - T (2018)*
* *“Happiness is the Ultimate Motive., Peace is the Ultimate Destination., and Soulful Dedication is the Ultimate Salvation” - T (2017)*
* *“It’s Time.” - T (2016)*