Tirth Pandya

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Professional Summary

Innovative .NET Developer and Cloud Solutions Architect with a proven track record of delivering high-impact technological solutions. Expertise spans *machine learning*, *cloud technologies*, and advanced software engineering, with a passion for solving complex business challenges through cutting-edge technology.

Professional Objective

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

Technical Skills

Programming Languages: *C#, .NET (Framework & Core), Python, Java, C++/C, Angular, HTML/CSS/JavaScript*
Cloud & DevOps: *Azure (Certified Associate Developer), Cloud Migration, Hybrid Infrastructure*
AI & Machine Learning: *Deep Learning, Prompt Engineering, GenAI, Computer Vision*
Tools & Frameworks: *OpenAI APIs, Tesseract, Docker, Git, IBM MQ, Windows Services*

Education

Nirma University   Ahmedabad, India
B.Tech in Computer Engineering   *Aug 2015 - May 2019*

- Aggregate CGPA: **9.52/10.0**
- Minor Specialization in *IoT* and *Cloud Computing*

Microsoft Azure Certifications   Online
Cloud Credentials   *2020-2021*

- *AZ-303*: *Azure Technological Solutions Architect*
- *AZ-204*: *Azure Developer Associate*
- *AZ-900*: *Azure Fundamentals*

Professional Experience and Projects

Morgan Stanley   Bangalore, India
From TAP Grad Analyst to Manager, Financial Planning Team - Wealth Management Technology   *Jan 2020 - Present*

- Led development of *Tesseract* with *OpenAI APIs*, a *GenAI* POC that enhanced client data exploration, reducing data retrieval time by **5x**
- Architected *Lex Ingenium* rules processing framework, **reducing time-to-market by 90%** and enabling parallel execution of **60+** business rules
- Spearheaded migration of core Analytics Engine to *Azure Public Cloud*, establishing a hybrid infrastructure supporting **1M** transactions/hour with **<1s** latency
- Rapidly advanced from Technology Analyst to Senior Technology Associate, demonstrating exceptional performance and leadership
- Developed event-driven messaging ecosystem that **improved workflow SLAs by 40%**, reducing data processing time from **23** hours to **2** milliseconds
- Implemented cross-team collaboration solutions using *Azure*, *.NET Framework*, *ChatGPT*, *Windows Services*, *IBM MQ*, and *Python*

Morgan Stanley   Bangalore, India
Technology Intern Analyst   *May 2018 - July 2018*

- Completed intensive **8-week** summer internship in the Financial Planning Team
- Demonstrated potential leading to a full-time offer in January 2020
- Gained foundational experience in *.NET* development and financial technology ecosystems

Notable Projects

Drone.AI
Deep Learning in Computer Vision

Ahmedabad, India
2019

- Applied *deep learning* for *Image Denoising*, *Object Detection*, and *Semantic Segmentation*
- Utilized *MU-Net Fusion*, *RetinaNet*, and *Fully Convolutional Networks*

Stock Market Prediction
Machine Learning

Ahmedabad, India
2018

- Implemented predictive models using *LSTM*, *SVM*, *Random Forest*, *DBN*, and *ARIMA*
- Conducted technical analysis of financial markets

Additional Certifications

Workshop Certifications
Technical Skill Development

Various Institutions
2015-2018

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

Leadership & Management

Nirma University
Student Leadership

Ahmedabad, India
2016-2019

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

Community Service

Social Impact Initiatives
Volunteer & Community Engagement

Various Organizations
2016-2024

- Annual charity drives for underprivileged and animal welfare at *Morgan Stanley GVM* (**2022-24**)
- Volunteered in Clothes Donation Drive for *IHRC*, Himatnagar, Gujarat (**2016**)
- Participated in fundraising and food service for economically marginalized people with *YouNeed Organisation*

Awards & Recognition

Academic Achievements
B.Tech Computer Engineering

Nirma University
2015-2019

- Institute Topper Gold Medalist - B.Tech '**15** - '**19** Batch
- Branch Topper Gold Medalist - B.Tech CSE **1st**, **3rd**, and **4th** Year
- Outstanding Paper Award - **"Image Denoising with Self Adaptive Multi-*UNET* Valve"** at *10th International Conference on Soft Computing*
- Distinction - Advanced *Line Follower Bot* Challenge, *IIT Bombay TechFest* (**2016**)

Academic Achievements
SSC

Ryan International School
2015

- Ryan Prince - Best Student Award, *Ryan International School* (**2015**)

Professional Recognition
Industry Awards

Morgan Stanley
2022

- Key Contributor to *GPS 2.0* team, winning **Barron's Industry Award for Innovation**

Hobbies & Interests

Creative Pursuits: Inventing and Improvising, *AI & Robotics* Enthusiast, *Machine Learning* Passionate
Entertainment: Gaming (Console & PC), Music (Guitar & Keyboard), Movies & TV Series
Active Interests: Motorcycle Touring, Sports (Badminton, Football, Cricket), *Computer Vision* Photography
Culinary: Cooking (Indian, Chinese, and Sandwich Cuisine)

Best O' Thoughts - Quotes

"*Be the flame that Ignites Life in the Darkest Hour* - T (**2020**)"

"*In all that we Code, we Quote* - T (**2018**)"