# Milan Patel

+1 302-719-8865 • mp890520@gmail.com • LinkedIn • Github

## PROFESSIONAL EXPERIENCE

**WHYPHY TECHNOLOGIES, Surat, GJ** **May 2024 – Aug 2025**

Full-Stack Developer

- **Led** the development of a **POS SaaS platform**, overseeing architecture, planning, and execution to enhance restaurant operations.
- **Migrated** the database from **Realm to MongoDB**, reducing costs while improving performance and scalability.
- **Integrated Dejavoo payment processing**, enabling secure and seamless transactions for both customers and staff.
- **Developed** a **role-based back-office dashboard**, allowing restaurant owners to manage operations with control.
- **Built** a **restaurant floor planner using CanvasJS**, providing a visual tool for designing and optimizing table layouts.
- Built an **online ordering setup** for the POS system, enabling customers to place orders digitally and streamlining order management.
- Developed a **Loan Bridging CRM** with separate panels for admin and investors, secure role-based access, and dynamic case ledger automation
- Built a **custom reporting engine** for unlimited, metric-based reports and enhanced investor visibility into investments and returns.

**Tata Consultancy Services (TCS), Gandhinagar, GJ** **May 2022 – Feb 2024**

System Engineer

- Worked on the **Driver Assistance project**, as a member of the **AD2 HIL (Hardware-in-loop) subdivision** of the ADAS department, primarily involved in the **hardware testing and reviewing** team efforts.
- Built an end-to-end **test runner in python** that would interact with ControlDesk to run test cases from a file on a simulation, collecting the results to **process with VB** for reporting.
- Mentored team members in **SIL (Software-in-loop) testing** and optimizing testing processes with Hardware-in-Loop (HIL) setups and industry-standard tools.
- Developed **automation scripts in Node.js and Python**, automating manual processes and successfully achieved synchronization between scripts to **maximize efficiency**, with reduced human efforts.
- Cleared the internal Bar Raiser exam (**TCS Elevate Wings 1**) on first attempt with **distinction** amongst the **30% qualifiers**, resulting in career growth in the organization.

**VideoSDK by Zujo Tech Pvt Ltd, Surat, GJ** **Jan 2021 – Mar 2022**

Software Engineer

- Built a cost effective cloud encoding service to provide **adaptive HLS video stream** using tools like ffmpeg resulting in **20% lower market price** for our users.
- Built a livestream service that could re-stream **RTMP videos concurrently** to multiple destinations like **YouTube, Facebook, LinkedIn**, and all other platforms at **latencies as low as 3 seconds**.
- Built an internal **devex tool** to monitor our infrastructure and **notify on-call** candidates on incidents.
- Worked on a **Multi-region Autoscaler** to handle the video call spikes at peak times across **different regions and cloud providers**. The service being aware of active demand, would upscale and downscale to balance between availability and resource utilization. Production ready in **just 3 sprints**.

## EDUCATION

**Rowan University, Glassboro, NJ** **Aug 2025 – Present**
Master of Science in Computer Science

**Uka Tarsadia University, Bardoli, Gujarat** **2017 – 2021**
Bachelor of Information Technology (BTech)

## SKILLS & OTHER

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|---|---|
| **Languages & Databases** | Node.js, Python, C++, MongoDB, Redis |
| **Libraries & Frameworks** | Express.js, React.js, Next.js, Jest, Nightwatcher.js, Material UI |
| **Tools** | ffmpeg, Docker, Kibana,nginx, socket.io, Mixpanel, Docusaurus, NATS, Skaffold |

## CERTIFICATIONS

**Microservices with Node JS and React, Udemy** **2023**
Stephen Grider

**The Complete React Developer Course (w/ Hooks and Redux), Udemy** **2020**
Andrew Mead

**The Complete Node.js Developer Course (3rd Edition)** **2020**
Andrew Mead