

Vandan Patel

Application Engineer
Transformation Department
Sterlite Technologies Limited

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Education

Degree	Institution	CPI/ %	Year
B. Tech	IIT Gandhinagar	6.65	2017 - 2021
Class XII	Nalanda School, Morbi	88.00 %	2015 - 2016
Class X	Divine School, Nakhatrana, Kutch	91.00 %	2013 - 2014

Jobs

- **Application Engineer (Sterlite Technologies Limited)** [Since Aug 2021]
 - Developed 6 Google Appsheet Applications
 - Developed 15+ Google Data Studio Reports
 - Email Signature Automation with Appsheets
 - Various POC
 - GCP Vision API
 - Document API
 - Translation API
 - Weather API
 - Python Docx
 - Document Management System
 - Handling and making required changes to the codebase
 - Regular Deployment of both Frontend and Backend Versions on GCP
 - Developed Leave prediction API

Internships

- **Summer Intern, ISRO (North-Eastern Space Application center)** [May 2019 –July 2019]
Avinash Chauhan, External Supervisor, scientist/engineer-SD
 - Study different algorithms related to Object Detection, Segmentation and, tracking and modified them.
 - Familiar Algorithms: YOLO, ROLO, SqueezeDet, SqueezeNet, LSTM, DeepSort.
- **Summer Project, Computational Design of Mechanical Characters (Automaton Building).** [July 2018]
Centre for Creative Learning (CCL) at IIT Gandhinagar. Prof. Manish Jain
 - Developed a working prototype of automata resembling the motion of pushing a man. Simulated the movement of a man using Cinderella software.
 - Developed a working prototype of 8x8 Led Tetris using an Arduino board.

Projects

- **Self-Project, File Transfer** [\[Link\]](#)
 - Built working software for server hosting and file transfer over the local network.
- **Course Project, Lift System.** Prof. joycee mekie
 - Created an advanced lift system using the basys3 board.
- **Course Project, Public WhatsApp groups classification** prof. Mayank Singh
 - Developed Machine Learning models to identify potential spam public groups present in WhatsApp.
 - Developed a working prototype that can Identify spam groups by the group link.
- **Course Project, Extended Image Segmentation** Prof. Nipun Batra
 - Developed a more efficient Machine Learning program using Mask R-CNN.
 - Developed a Realtime Graphical user interface to integrate the model.
- **HackRush, IIT Gandhinagar**
 - Participated in **HackRush** 2018, 2019 & 2020 – IIT Gandhinagar 36 hrs. Hackathon.
 - **2018:** Successfully detected vulnerability on the network of IIT Gandhinagar.
 - **2019:** Developed Email Parsing for management of Institute mails. The tool can segment mail related to Institute Talks and Extract Import information like date, time, venue, speaker.

- **2020:** Developed a Machine Learning model using ARIMA for forecasting Electricity consumption of a household on an hourly basis.
- **Windows Diagnosing Tool** [\[Link\]](#)
 - Built Diagnosing tool for windows Trash clean-up.
- **Course Project, Renewable Energy: Effective Solar Panels.** *Prof. Amit Sheth* [Aug-Nov 2018]
 - Analyzed the design of solar panels, problems associated with it and made a concept of solar panel solving some of the issues we found like low-cost cleaning mechanism, seasonal sun tracking system, height adjustability, etc.
 - Made a working prototype of the solar panel.
- **Course Project, Liquid Lens.** *Prof. Vijay Thiruvengatam* [Aug-Nov 2018]
 - Developed a prototype of a model to measure the Refractive index of a transparent liquid.

Technical skills

- **Primary Language:** Python 3.8
- **Secondary Language:** C
- **Tools:** Xilinx Vivado, Wireshark, Nmap, Aircrack-ng, john the ripper, hashcat

Area of Interest:

- Software Development
- Network Engineering, Cyber Security
- Machine Learning, Deep learning

Achievements

- Scored first rank in entire district in High school (11th-12th) [2015, 2016]
- Scored 1100 All India Rank (AIR) in JEE Advanced. Highest among B. Tech'17 Batch of IIT Gandhinagar. [2017]
- Scored first position in the IGNITE 7.0 CodeRush Competitive programming challenge. [2021]

Positions of Responsibility

- **Event Organizer, Hallaboli, Annual Intra College Sports Festival, IIT Gandhinagar** [2018, 2019]
 - Organized the intra-college fun sports festival aimed to facilitate the overall interaction level among the community of IIT.
 - Organized the game Kho-Kho which had more than 200 participants.
- **Event Organizer, Jashn, Annual Intra College Cultural Festival, IIT Gandhinagar.** [2018, 2019]
 - Coordinated the LAN gaming section for the whole event. It had more than 300 participants.