

# SAMARTH SHAH

3<sup>rd</sup> Year Undergraduate Student



## PERSONAL SUMMARY

aim To pursue a high rewarding career, seeking for an internship in challenging and healthy work environment demanding all my skills and efforts to explore and adapt myself in different fields and realize my potential where I get the opportunity of continuous learning.

## COURSES COMPLETED

- Calculus and Differential Equations
- Computer Organization
- Discrete Mathematics
- Database Management System
- Electronic System Design
- Electromagnetic Theory
- Probability and Random Processes
- Signals and Systems
- Linear Algebra
- Operating System
- Computer Networks
- Advanced-Data Structures and Algorithms

## GET IN TOUCH!

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C-31 Prasad Co-Op Society, Bharuch-392012

## EDUCATION BACKGROUND

- Advait Vidyaniketan, Bharuch

SSC (Class 10) | GSEB Board

-Percentile : 99.85/100

HSC (Class 12) | GSEB Board

-Percentile : 97.20/100

- Ahmedabad University (Graduation Year 2022)

School of Engineering & Applied Science

Major in Information and Communication Technology (ICT) and Minor in Management

-CGPA : 3.12/4.00\*

\*(At the end of the 4th semester)

## TECHNICAL SKILLS

### Programming Language

C, C++, JAVA, Python, Verilog, Shell Scripting, R, HTML, CSS, Latex

### Software Comfortable with

MS Office, NetBeans, MATLAB, Adobe After Effects (AE), Adobe Premier Rush (PR), Adobe Illustrator, Xilinx, Jupyter Notebook, Visual Studio Code

### Operating Systems

Windows, Linux

## SCHOLASTIC ACHIEVEMENTS

- Scored 97.20 percentile rank in HSC, March 2018, where approximately 1.35 lakh students appeared for the exam.
- Scored 99.85 percentile rank in SSC, March 2016, where approximately 7 lakh students appeared for the exam.
- Secured All India rank 75 (Category 2) and institute rank 1 in National Creative Aptitude test(NCAT) held in 2020, where 198 institutes participated for the exam.

# PROJECTS

- Optimizing the Molecular communication with data-driven approach using LSTM network
    - Mentor- Prof. Dhaval Patel
    - Skills used- Python
    - The aim of this project was to analyze and optimize the receivers by using the conventional model-based approach, which relies on an accurate model of the system, and the emerging data-driven approach, which, on the other hand, does not need any apriori information about the system model and exploits deep learning tools.
    - Team Size- 3
  - Microprocessor
    - Mentor- Dr. Pratik Trivedi
    - Skills used- Verilog and Xilinx Spartan 3E
    - NTP is a real-time processor implemented in Verilog and tested on Xilinx Artix-7 FPGA. It is a RISC based 8-bit 5 stage pipelined processor with 28 instruction format and 579.67 Mhz clock frequency.
    - Team Size- 4
  - Video & Podcast Streaming
    - Mentor- Dr. Jitendra Bhatia
    - Skills used- C Language
    - The connections of sockets, to initially receive the information about available stations, is done using TCP. The video/audio files are sent over UDP socket.
    - Team Size- 3
  - Analysis of Decision Support System for Detection and Progression of Diabetic Retinopathy using Multi-state Markov Chain
    - Mentor- Prof. Dhaval Patel
    - Skills used- R, MATLAB
    - Diabetes is a disease that occurs due to high blood sugar and affects the blood vessels in the eyes. Detection of the disease was modeled and progression was done by filtering the useful parameters.
    - Team Size- 3
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# EXTRA-CURRICULAR ACTIVITIES

- Elected as General Secretary in Primary section (2014-2015).
  - Worked as Video-Editor in Environment Club (July 2020 - October 2020) in Ahmedabad University.
  - Graphic Head of Theatre Club in Ahmedabad University.
  - Managed various collage events like Quest to the Screen where Pratik Gandhi (Actor), Devarshi Shah (Actor), Siddharth-Garima (Writers) were chief guests.
  - Participated in Hash Code 2020 which was conducted by Google
  - Participated in various coding competitions like Codefi, Codefeeder in Tech-Fest, 2019.
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# ADDITIONAL LINKS

- [Github](#)
- [LinkedIn](#)