Shubham Patel

LinkedIn / GitHub / CodeChef

Email: shubhampatel28102001@gmail.com
Mobile: +91 8866907956

EDUCATION

• **School of Engineering and Applied Science, Ahmedabad University** *July 2021 - Present*
Bachelor of Computer Science and Engineering *CGPA: 3.69/4 (9.23/10)*

WORK EXPERIENCE

CARIKTURE - *Web Developer Intern* *May 2021 – July 2021*
  ◦ Worked with PHP, JavaScript and MySQL to design and customize web applications.
  ◦ Worked on the backend part of the template generator web application which generates editable HTML elements which can be styled through CSS and Bootstrap through an interactive User Interface.
  ◦ Customized diagrams.net to fit the organization requirements to load the custom library by default onload which isn't closable.

PRABHAT EDUCATION FOUNDATION - *Volunteer* *August 2020 – November 2020*
  ◦ Leaded the team of 5 students during the program.
  ◦ Created video content as a team for helping the differently-abled children.

KEY PROJECTS

• **Linux Web Terminal (Browser based)** *Solo, Aug. 2021*
  ◦ Helps beginners to get familiar with basic Linux commands and practice them on the browser.
  ◦ Implemented File Service System using Tree Data Structure.
  ◦ Developed using React, NodeJS and jQuery.
• **Audio Compression using Linear Predictive Coding** *Team of 4, Sept. 2020*
  ◦ Implemented Linear Predictive Model of 6 and 12 order.
  ◦ Able to reduce more than $1/10^{th}$ of the original audio size.
  ◦ Interactive GUI for better user-friendly experience.
  ◦ Suitable for compression of audio formats.
• **Image Compression using Power Method for Singular Value Decomposition** *Team of 4, Sept. 2020*
  ◦ Implemented Power Method for SVD without using inbuilt NumPy functions.
  ◦ Able to achieve greater image compression based on the provided rank of singular matrix.
  ◦ Suitable for compression of all image formats.
• **Library Management System** *Team of 3, Apr. 2021*
  ◦ Implemented using triggers and procedures in MySQL.
  ◦ Interactive webpage made using HTML, CSS and Bootstrap for better user-friendly experience.
  ◦ Suitable for school and college libraries.
• **AIChE Chapter (Ahmedabad University) Website** *Team of 3, Jun. 2021*
  ◦ Showcases achievements, yearly events, blogs, board members of the chapter.
  ◦ Built with HTML5, CSS, Bootstrap and JavaScript.

PROGRAMMING SKILLS

• **Languages:** Python, C++, C, Java, HTML, CSS, MATLAB, PHP, MySQL, Oracle Express, Verilog.
• **Frameworks:** NumPy, SciPy, Matplotlib, Git, JavaScript, NodeJS, BootStrap.

RELAVENT COURSEWORK

Computer Organization and Architecture, Database Management Systems, Design and Analysis of Algorithms, Data Structures, Object Oriented Programming, Data Science, Digital Design, Probability and Stochastic Processes, Linear Algebra, Calculus, Discrete Mathematics.

ACHIEVEMENTS

• **Competitive Programming:** 3-star (1784) at CodeChef.

- **Academics:** Secured 99+PR (330 rank all-over Gujarat) in 12th Boards Science Stream Examination.

EXTRA CURRICULAR

- Member of Programming Club at Ahmedabad University.

CERTIFICATIONS

- Python (Basic)   *- HackerRank*
- Python (Intermediate)   *- HackerRank*