



Vedic VARMA

Jaipur, Rajasthan, India | 8766304030

vedic20052005@gmail.com

[Github](#) | [LinkedIn](#)

## SUMMARY

A highly motivated Computer Science student with a strong foundation in programming and full-stack development. Proven experience in developing scalable web applications and leading projects. Looking forward to contributing to impactful projects and further honing my skills.

## EDUCATION

**SANSKRITI SCHOOL, NEW DELHI**

July 2022

PCM + COMPUTING IN PYTHON

**MANIPAL UNIVERSITY JAIPUR**

September 2026

BTECH IN COMPUTER SCIENCE, MINOR IN DATA SCIENCE

- Major GPA: 8.64

## EXPERIENCE

**SKELLO, NEW DELHI**

May 2023 - July 2023

FULL STACK DEVELOPMENT ENGINEER

- Created a product backend, genAI wrapper for administrative assistance.

**FREELANCE FULL STACK WEB DEVELOPER**

June 2023 - Current

DEVELOPED MERN WEB PAGES FOR COMPANIES.

- Used proficiency in MERN stack to create landing pages for startups.

**RESEARCH INTERN AT DRDO,GTRE , ADVANCED SOFTWARE ENGINEERING LAB**

May 2024 - July 2024

RESEARCHED TO OPTIMIZE SOFTWARE IN THE NATIONS LEADING GAS TURBINE ENGINES

- Used my command over algorithms to research an optimized square root algorithm, which will be published as a research paper in the future.

## SKILLS

<b>PROGRAMMING LANGUAGES</b>	<b>Experienced:</b> Python   Javascript   C <b>Familiar:</b> Bash   Java
<b>SOFTWARE DEVELOPMENT</b>	'Design Before Code' methodology   GIT   Linux   Bash Scripting   DevOps Lifecycles
<b>FRAMEWORKS &amp; LIBRARIES</b>	Django   Flask   Win32API   React   React Native
<b>LANGUAGES</b>	<b>Excellent:</b> English <b>Fluent:</b> Hindi <b>Beginner:</b> Spanish

## POSITIONS

- ONGOING - JOINT HEAD WEBMASTER @ CYBERSPACE, CYBSECURITY CLUB OF MUJ
- HEAD OF FINANCE FOR 2 YEARS @ RANDOMIZE, CSE CLUB OF MUJ
- CORE TEAM @ PHI PHENOMENON, RESEARCH CLUB OF MUJ
- HEAD OF SPONSORSHIPS @ INSELL, UNDER THE DIRECTORATE OF INTERNATIONAL RELATIONS

## PROJECT WORK

---

### GUI-BASED LIBRARY MANAGEMENT SYSTEM Python: Tkinter

Jan 2022 – March 2022

LEAD DEVELOPER

- Developed a feature-rich Library Management System with sorting, filtering, and checking out functionalities using Python, Tkinter, and MySQL.
- Check out the project on [GitHub](#).

### DELL HACKATHON: SMART NAVIGATOR JavaScript: React-Native

Oct 2023 - Jan 2024

CO-PROJECT-LEAD

- Worked on this project for the Dell HackToHire Project meant for placements.
- Led the frontend development of our project, Smart Navigator in React-Native.
- Won **First Position** in the entire 20-team 3-month long hackathon. See my post here: [LinkedIn](#)

### PLACEMENT MANAGEMENT SYSTEM JavaScript: React/Bare

Feb 2024 - April 2024

BACKEND DEVELOPER

- Developed 2 versions of the same application, React / bare JavaScript to explore the underlying working of ReactJS
- Had random tests to evaluate it, both from the perspective of a student, and a placement coordinator.

### DISCORD BOT: STELLA Python: discord.py, asyncio

Oct 2021 – Present

PROJECT LEAD

- Developed **Stella**, a Python Discord bot for "torn.com" using discord.py, APIs, gspread, and more.
- Led the project life cycle, dedicating over 5000 hours to development.
- Internationally commissioned with payment, demonstrating market demand, with hosting on AWS for scalability, currently running full time with monthly updates.

### PATHFINDING VISUALIZER Python: Matplotlib, Tkinter

May 2024 - June 2024

SOLO PROJECT LEAD

- Developed a **Pathfinding Visualizer** to aid in my research in ML-based pathfinding algorithm.
- Led the project, dedicating over 50 hours to development and debugging.
- Used Matplotlib and Tkinter to develop a standalone app that can accept the user's map, train a pathfinding model, then return the results of every possible source, destination pair.

## CERTIFICATIONS

---

- **IBM DATA SCIENCE SPECIALIZATION - 10 COURSE PROFESSIONAL CERTIFICATE**
- **FULL STACK DEVELOPMENT WITH GEEKS FOR GEEKS - 10 WEEKS**
- **GOOGLE CLOUD COMPUTING FOUNDATIONS WITH GENAI - 8 COURSE CERTIFICATE**
- **UNIVERSITY OF LEEDS AN INTRODUCTION TO LOGIC FOR COMPUTER SCIENCE - 7 HOUR CERTIFICATE**
- **VANDERBILT UNIVERSITY INTRODUCTION TO DATA, SIGNAL, AND IMAGE ANALYSIS WITH MATLAB - 24 HOUR CERTIFICATE**

## AWARDS

---

2019

67<sup>th</sup> Rank & Gold Medalist in International English Olympiad

2022

Dean's List & highest Grade Point Average in my Second Semester

2024

Student Excellence Award & For achieving first position in the Dell hackathon

2024

Tea with the President version 7, interacted with the university's president in lieu of my academic excellence

## PUBLICATIONS

---

### JOURNAL RESEARCH PAPER: ALGORITHM FOR ESTIMATION OF N-TH ROOT

Work In Progress

DEVELOPING AN ITERATIVE METHOD FOR FINDING THE N-TH ROOT OF REAL NUMBERS.

SURPASSING THE EFFICIENCY OF THE NEWTON-RAPHSON METHOD.

THIS WILL BE PUBLISHED THROUGH DRDO, DEFENSE AND RESEARCH DEVELOPMENT ORGANIZATION OF INDIA.

### RESEARCH PAPER: ADVANCED SELECTION SORT ALGORITHM

Work in Progress

DEVELOPING AN OPTIMIZED SELECTION SORT ALGORITHM WITH A BEST CASE OF  $O(n)$  AND WORST CASE OF  $O(n^2)$

### RESEARCH PAPER: ML-BASED PATHFINDING ALGORITHM

Work in Progress

DEVELOPED A PATHFINDING ALGORITHM THAT REQUIRES MINIMAL COMPUTATION ON THE USER END, WHILE STILL GIVING THE SHORTEST ROUTE