

# ARYAN RAJENDRA DALVI

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## PURPOSE

Seeking an entry-level developer role to leverage my programming skills in a challenging environment. Eager to learn from experienced professionals and contribute to building innovative and efficient software solutions

## SKILLS

- Java
- C/C++
- SQL
- Python
- HTML/CSS
- Basic and Advanced Math

## PROJECTS

### GUI Based Application in JAVA for Floyd Warshall Algorithm

- Designed and developed a visual representation to show the working of Warshall's Algorithm

### GUI Based Application in Python that uses QUASI NEWTON METHOD FOR Unconstrained Optimization

- Developed a program which uses the Quasi-Newton method to optimize a function given by the user. It approximates the Hessian matrix using gradient information, making it more efficient than Newton's method for large-scale problems.

### Cost Effective and High Quality Material Selection using Geometric Mean Optimizer in Python

- The project implements Geometric Mean Optimizer in Python using NumPy, Pandas, SciPy to optimize the selection of construction materials.
- The goal is to minimize material costs while ensuring high quality, durability, and sustainability.
- The algorithm evaluates multiple material combinations using fuzzy membership functions, leveraging NumPy for matrix operations, Pandas for data handling and SciPy for optimization tasks

### Turf Booking Website using React, Node.js, SQL

- Engineered a responsive web application for real-time turf booking, featuring a live calendar and a geolocation service to recommend nearby facilities to users.
- Implemented a secure admin dashboard that allows turf owners to efficiently manage their venue listings, user accounts, and booking schedules.

### Online Platform for Reporting Women Harrassment at Workplace using MERN Stack

- Developed a **privacy-first, multi-language platform** for women to securely and anonymously report workplace harassment, featuring an evidence vault, AI-powered legal guidance, and emergency response tools like one-click location sharing and helpline access.
- Engineered a **full-stack MERN application** using a Next.js frontend and Node.js backend, integrating Google's Gemini API for AI features and implementing robust security measures like JWT authentication and bcrypt hashing.

## EDUCATION

### BACHELOR OF ENGINEERING

Thadomal Shahani Engineering College, Artificial Intelligence and Data Science

**CGPA: 9.70**

EXPECTED JUNE 2027

### HIGHER SECONDARY CERTIFICATION

SARDAR VALLABHAI PATEL COLLEGE, Major in CS

**83.5%**

Maharashtra State Board Of Secondary and Higher Secondary Education, Pune

JUNE 2023

## COURSES, SEMINARS

### ARDUBOTICS WORKSHOP, THADOMAL SHAHANI ENGINEERING COLLEGE

SEPTEMBER 2023

### CYBERFRAT CYBERSECURITY NATIONAL SYMPOSIUM

OCTOBER 2024

### GAME DEVELOPMENT WITH UNREAL ENGINE USING C++

JANUARY 2025-PRESENT

## POSITION OF RESPONSIBILITY

- **TREASURER**  
STUDENT COUNCIL, THADOMAL SHAHANI ENGINEERING COLLEGE

**2025-2026**