

Nishchith

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Education

Bachelor of Engineering in
Computer Science & Design
Canara Engineering College
Expected Graduation: October 2027
CGPA: 8.048

Skills

- Languages : C, C++, JavaScript, Python, Java
- Framework : Flask, Express.js
- Databases : MongoDB, PostgreSQL
- Tools : Git, GitHub, Postman
- Deployment & Networking : Domain Hosting, DNS Configuration (Cloudflare), VPS (Linux)

Certifications

Complete Web Development Course
(Ongoing) - Udemy

Achievements / Extra

- Participated in Srinathon 2025
- Participated in Aetherion'25
- Participated in Hack.IO
- Presented a research paper titled Automated Academic Timetable Generation using Constraint based Insertion and Iterative Local Swap based Optimization Techniques at the ICRAI – 2025.

Project

1) AUTOMATED TIMETABLE GENERATOR

- Developed a web-based timetable generation system using Flask, PostgreSQL, and vanilla JavaScript
- Designed and implemented a custom algorithm to generate timetables for multiple semesters within a department
- Implemented validation for both hard and soft constraints such as faculty availability, lab allocation, and fixed slot scheduling
- Ensured conflict-free timetable generation by preventing faculty overlaps and maintaining proper resource allocation
- Achieved efficient timetable generation with an average execution time of around 30 seconds

2) MEDIQUEUE

- Developed a patient queue and appointment management system using React, Express.js, and MongoDB
- Implemented an appointment booking system that organizes patients into a dynamic queue
- Designed logic to display real-time queue position, allowing users to track how many patients are ahead of them
- Handled appointment cancellations and adjusted the queue accordingly to bring forward waiting patients
- Built REST APIs for managing appointments, queue updates, and user interactions

Internship – Swizosoft

- Developed a full-stack internship management portal using Flask, PostgreSQL, and vanilla JavaScript
- Built application workflow allowing students to apply, submit assignments, and track internship progress
- Implemented dynamic PDF generation for offer letters and completion certificates using ReportLab and PyPDF2
- Integrated email delivery system using Resend to automatically send generated documents to users
- Designed admin and controller modules for reviewing applications, evaluating submissions, and managing internship lifecycle
- Developed attendance management system with automated absence marking using cron jobs if attendance is not marked by controller