

# Gokul B

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## Education

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<b>Thiagarajar College of Engineering</b> , B.E. in Computer Science and Engineering	Oct 2021 – May 2025 Madurai, India
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## Experience

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<b>Winter Intern</b> , Indian Institute of Science – Bangalore, India	Dec 2024 – Jan 2025
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- Analyzed and transformed a Jupyter Notebook implementing the Best Worst Method (BWM) for Multi-Criteria Decision Making (MCDM) into a user-friendly web-based interface.
- Studied MCDM and BWM methodologies, with applications in supply chain optimization and decision-making research.
- Built a full-stack website for the Operations Research Society of India - Karnataka Chapter (ORSI-KA) using Wix, Next.js, and Supabase.

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<b>Winter Intern</b> , Coffee Inc. – Chennai, India	Dec 2023 – Jan 2024
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- Developed a doctor appointment booking website, using Next.js and MongoDB for scheduling and data management.
- Created a responsive website for OYG Cabs (www.oycabs.in) using WordPress and HTML, enhancing the company's online presence.

## Projects

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### 1. Harvest Haven: Invoice Billing Application

- Tracks item-wise revenue, including item names, amounts earned, and quantities sold.
- Retrieves up-to-date data dynamically from a MySQL database.

Link: [Harvest Haven](#)

Tech Stack: JSP, Bootstrap, MySQL

Status: Completed

### 2. OYG CABS: Travel Agency Website

- Designed and developed a website for OYG Cabs, a division of Shri Bhagyalakshmi Travels.
- Gathered client requirements and implemented a Google Material Theme to enhance UI/UX.

Website: [oygcabs.com](#)

Tech Stack: WordPress, HTML

Status: Completed

### 4. ORSI-KA Website

- Developed during an internship at IISc, Bangalore.
- Built a full-stack website for the Operational Research Society of India – Karnataka (ORSI-KA).
- Implemented user authentication, payment integration, and automated member notifications.
- Streamlined membership management and improved user engagement.

**Website:** [orsi-ka.in](https://orsi-ka.in)

**Tech Stack:** Wix, Next.js, Supabase

**Status:** Completed

## 5. BWM Calculator: Calculating Priority Weights

- Created a web-based interface for the Best Worst Method (BWM), a Multi-Criteria Decision-Making (MCDM) method.
- Simplifies decision-making using linear and quadratic programming to calculate priority weights.
- Validates user inputs dynamically and provides instant results for factors in fields like business, health, IT, and agriculture.

**Website 1:** <https://old-bwm.vercel.app/>

**Website 2 :** <https://new-bwm.vercel.app/>

**Tech Stack:** Flask, HTML, CSS, JS

**Status:** Ongoing

## 6. End-to-End CI/CD Pipeline using Jenkins, Sonarqube, ArgoCD, Kubernetes, Trivy, Maven, Docker

- Built a Continuous Integration and Continuous Deployment pipeline for a SpringBoot web application.
- Followed modern DevSecOps practices by integrating Trivy vulnerability scans

**Tech Stack:** SpringBoot, HTML, GitHub Actions, ArgoCD, Docker, Kubernetes, SonarQube, Maven

**Status:** Completed.

## Technologies

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**Languages:** Java, C, Python, SQL

**Frameworks:** NextJS, Django, JSP, Flask

**Version Control:** Git, Github

**DevOps:** Jenkins, Sonarqube, Maven, ArgoCD, Docker, Kubernetes

## Extra Curricular Activities

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### Achievements:

- University **Rank 1** in **IEEEExtreme** Coding Competition, hosted by IEEE globally.
- Secured third place in the **Technical Blog Writing** contest conducted by the **TCE Coders Club**.
- Finalist in the **Shristi Hackathon** conducted by **PSGTech, Coimbatore**.
- **Prefinalists** in the **TRI-NIT Hackathon**.
- **Participated** in the **2022 ICPC Asia Amritapuri First Round Online Programming Contest**.

### Leadership Roles:

- **CEO of E-Cell,TCE** - Managing all departments of E-Cell,TCE
- Serving as **General Secretary** at **IEEE Computer Society** at TCE (September 2023 - Present).
- Secured an event with **\$1000** grant from IEEE Computer Society to conduct the **IEEE High Impact Zonal Event** at TCE, Madurai.
- Spearheaded CaseLabs '24, a casestudy competition conducted by E-Cell,TCE garnering over 400 participants.

### Certifications:

- Microsoft : AZ-900 (Azure Fundamentals) , AI - 900 (AI Fundamentals)