

# Shwen Coutinho

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## EDUCATION

### Fr. Conceicao Rodrigues College of Engineering

*Bachelor of Technology in Computer Engineering*

CGPA: 8.95/10.00

Bandra, MH

Nov. 2022 – May 2026

### Thomas Baptista Junior College

Grade: 88.83%

Vasai, MH

Jul. 2020 – July 2022

### Notre Dame School

Grade: 88.40%

Vasai, MH

Apr. 2007 – Apr 2020

## PROJECTS

### FashionForge / *Next.js, Tailwind, SQL, Python, Flask* / [Website](#), [Github](#)

Jan 2025

- Built a user-centric frontend with Next.js and Tailwind CSS, enabling users to digitize wardrobes and get AI-powered outfit suggestions.
- Collaborated with a 4-member team during a hackathon, co-leading UI design and implementing features like celebrity-inspired looks and a style evolution tracker.
- Worked closely with the backend team to seamlessly connect APIs for smart shopping, style tracking, and event-based outfit recommendations.

### Solariser / *Leaflet.js, Next.js, Express.js, REST APIs* / [Github](#)

June 2024 – May 2025

- Developed a website to estimate rooftop solar potential using satellite imagery, enabling users to visualize solar suitability and panel placement.
- Regularly interfaced with a 3 member team to integrate Google Earth Engine to extract building footprints and calculate solar coverage area based on real-world coordinates and roof angles.
- Used Leaflet.js, allowing users to select rooftops either via freehand polygon drawing or predefined shapes for flexible area selection and accurate solar estimation.

### Bill-Friend / *Java, Swing, PostgreSQL* / [Github](#)

Dec 2023 – May 2025

- Developed the frontend interface using Java Swing, enabling users to seamlessly view, generate, and pay electricity bills with real-time feedback.
- Implemented customer and admin dashboards to handle tasks like bill calculation, meter readings, and user authentication effectively.
- Integrated backend MySQL database with optimized queries and proper indexing, enabling smooth CRUD operations and reducing data retrieval time by ~25%.

## RESEARCH & PUBLICATIONS

### International Conference on Futuristic Aspects in Science & Engineering '25

Jaipur , HR

#### Certificate

Feb 2025

- Co-authored and presented a technical research paper on a satellite-image-powered tool that estimates rooftop solar energy potential.
- Proposed a scalable web-based system that visualizes solar panel feasibility using high-resolution geospatial data, aiding decision-making for sustainable urban energy planning.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS,

**Frameworks:** React, Node.js, Next.js, Express.js

**Developer Tools:** Git, Docker, AWS, VS Code