

# Shagnik Paul

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## PROFILE

Currently in the 3rd year of my Computer Science degree at VIT Vellore with a strong focus on full-stack web development and solid foundations in Java programming. I am intermediate-level proficient in Java, with hands-on experience in object-oriented programming, data structures, and algorithmic problem solving. I enjoy building scalable web applications, solving DSA problems on platforms like LeetCode, and contributing as a dedicated, hard-working team member.

## EDUCATION

<b>Vellore Institute of Technology (VIT)</b> <i>B.Tech in Computer Science and Engineering (IoT Specialization), CGPA (5th Semester): 9.34</i>	Vellore, India <i>Expected Apr 2027</i>
<b>St. Joan's School (CISCE)</b> <i>Class XII – 95.75% — Class X – 96.2%</i>	Kolkata, India <i>Apr 2022</i>

## PROJECTS

<b>Unity Help (Full Stack Web App – React + Firebase)</b>   <a href="#">Github</a>	2025
<ul style="list-style-type: none"><li>– Individually developed a volunteer-help platform connecting 20+ test users, allowing users to post requests and volunteers to sign up for assistance.</li><li>– Built a responsive frontend using <b>React</b>, <b>Chakra UI</b>, and <b>Tailwind</b>, achieving sub-1s average load time across devices.</li><li>– Integrated <b>Firebase Authentication</b> with Google sign-in for secure and seamless user access.</li><li>– Configured <b>Firebase Firestore</b> to manage user posts, volunteer profiles, and task records with real-time synchronization.</li><li>– Implemented email notifications via <b>Brevo's JavaScript SDK</b> to notify users upon task acceptance and send automated completion acknowledgements.</li></ul>	
<b>Automated Toll Collection System (Full Stack Web App)</b>   <a href="#">Github</a>	2024
<ul style="list-style-type: none"><li>– Collaborated in a 3-member team to automate toll collection using Arduino and camera-based vehicle detection for 50+ test vehicles.</li><li>– Developed backend services using <b>FastAPI</b> and <b>MongoDB</b>, processing 500+ license plate records with <b>EasyOCR</b> at 90% accuracy.</li><li>– Built a React-based frontend with <b>Chakra UI</b> and near real-time updates using TanStack Query.</li><li>– Designed an analytics dashboard to display vehicle history, toll summaries, and QR-based billing details.</li></ul>	

## TECHNICAL SKILLS

<b>Core CS Concepts:</b> Data Structures and Algorithms (Java), Object-Oriented Programming, Database Management Systems
<b>Programming Languages:</b> Java (Intermediate, OOP, Collections, DSA), JavaScript, Python, C++, C
<b>Frontend:</b> React, Next.js, Shadcn Components, Chakra UI, HeroUI, Flowbite, HTML, CSS
<b>Backend:</b> Flask, Django, Express.js, FastAPI, Node.js, Firebase, Supabase, MongoDB

## EVENTS PARTICIPATION

<b>Yantra Central Hackathon</b>   <i>Backend Developer &amp; UI/UX Designer (Team of 5)</i>   <a href="#">Certificate</a>	March 2025
<ul style="list-style-type: none"><li>– Built a Flutter-based waste classification app during a 36-hour hackathon enabling recyclable exchange for rewards.</li><li>– Designed 8-screen UI/UX flow in <b>Figma</b> for core application features.</li><li>– Developed backend APIs using <b>Flask</b> and <b>MongoDB</b>, integrating an ML model and securing endpoints with <b>Supabase</b> authentication.</li></ul>	

## CERTIFICATIONS

<b>Full Stack Web Developer Bootcamp (Udemy)</b>   <i>Colt Steele</i>   <a href="#">Certificate</a>	2024 – 2025
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## LANGUAGES

English (Fluent), Hindi (Fluent), Bengali (Native)
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