Harshith Gamini

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IIT Bhubaneswar

Electrical Engineering
Final Year Undergraduate
CGPA: 8.70/10

Education

Indian Institute of Technology, Bhubaneswar **2022 − 2026 (Expected)**
B.Tech in Electrical Engineering (CGPA: **8.70/10**) *Bhubaneswar, Odisha*

Experience

- **Zscaler** | Cybersecurity from AI to Zero Trust May 2025 - July 2025
  Intern - Software Development
  - Prototyped a self-service QBR system by customizing Apache Superset with slide-based dashboards, dynamic filters, and native PPT export; contributed improvements upstream.
  - Designed a dimensional QBR Datamart using Trino, Iceberg, and S3 to simulate production data flow and validate the architecture to enable fast, structured querying for QBR use cases.
  - Delivered a scalable BI solution reducing report generation time by **50%** and validating Superset as a complete QBR replacement.

- **Pulse** | Agentic AI Platform for Product Teams May 2024 - July 2024
  Intern - Software Development
  - Developed and optimized user authentication, onboarding flows and integrated third-party tools like **Jira** and **Slack**, improving onboarding and workflow efficiency.
  - Built and maintained robust front-end API integrations, ensuring seamless data exchange and enhancing system reliability and user experience.

Projects

- **Apache Superset | (Open Source Contributor)** *June 2025 - Present*
  - Contributed layout and theming fixes upstream to support enterprise reporting; collaborated with Superset maintainers on PRs and issue resolutions.

- **Spotify Clone | (Frontend)** *July 2024 - August 2024*
  - Developed a high-performance Spotify clone using Next.js, Supabase, and Tailwind CSS, focusing on delivering a responsive and user-friendly interface.
  - Implemented core features—including real-time music streaming, playlist creation, and secure user authentication to mirror Spotify's functionality.
  - Integrated Supabase for backend and data storage ensuring seamless interaction between the frontend and backend.

- **Chess AI Engine — (Ongoing)** *Dec 2024 - Present*
  - Developed a robust Chess AI using advanced algorithms and machine learning techniques, incorporating elements like mini-max and alpha-beta pruning to enhance decision-making and strategy formulation.
  - Designed and implemented the Chess AI software using Python, ensuring efficient code architecture and performance optimization.

Technical Skills

- **Programming Languages :** C, C++, Python, Javascript, Typescript
- **Frameworks/Libraries :** ReactJS, NodeJS, Express
- **Tools :** MongoDB, Git, Matlab, VS Code, Jupyter Notebook
- **Soft Skills :** Leadership, Event Management, Active Listening, Teamwork

Positions of Responsibility

- **Quiz Society, IIT Bhubaneshwar** April 2024 - April 2025
  Governor
  - Organized and conducted multiple quizzes while leading a team to ensure smooth execution of events.
  - Mentored junior members of the Quiz Society, providing training sessions and resources to help them excel in quizzes.

- **Tensor - Machine Learning Club, IIT Bhubaneshwar** April 2024 - Present
  Member
  - Mentored juniors providing guidance and resources to help them get started in Machine Learning.