

Aarab Nishchal

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Education

Kalinga Institute of Industrial Technology
Bachelor of Technology in Computer Science
Bhubaneswar, Odisha

2022 – 2026

Experience

Content Development - Tech, Unstop (Remote) Sep 2024 - Present

- Developed and curated **6-12 coding and technical questions** daily for Unstops hiring platform, contributing to company recruitment drives and enhancing platform content quality for multiple hiring partners.
- Diagnosed and resolved **400+ data-related bugs and technical issues within a 2-week sprint**, collaborating with backend teams to update, modify, and enhance existing problem sets, improving platform reliability and user experience.

Projects

Orphia - AI-Powered Music Generator GitHub

- Led end to end development of an AI-powered music generator, integrating **Meta's MusicGen with a custom LSTM model** and deploying a responsive Next.js UI, enhancing user experience and music personalization.
- Integrated **Meta's MusicGen and a custom LSTM model** to enable personalized music generation based on user inputs, improving generation accuracy and customizability.
- Designed responsive frontend with Next.js that improved user retention by 25%

CppTestGenAI - AI-Powered C++ Test Generator GitHub

- Built a tool to automatically parse **.cpp** and **.h** files, using a fine-tuned **LLaMA language model** to generate intelligent **unit test scenarios and test cases**.
- Generated detailed **cache**, **log files**, and an AI-based **coverage report** to highlight untested code paths and improve overall test accuracy.
- Reduced manual testing time by **80%**, accelerating development workflows and enabling seamless integration into **CI/CD pipelines**.

An - Personal Portfolio Website GitHub

- Designed and developed a personal portfolio using **Next.js**, **EmailJs** and **Framer Motion** to showcase projects, skills, and contact options with a focus on performance and visual storytelling.
- Implemented advanced **SEO optimization**, **structured metadata**, and **Open Graph tags** to improve search engine discoverability and social media visibility.
- Achieved a **83% performance score** (Google PageSpeed Insights) for both mobile and desktop views by following best practices in performance optimization and accessibility.

Certifications & Awards

- Problem Solving Certificate - HackerRank
- Scientific Computing with Python - FreeCodeCamp
- Software Development Trainee, Data Processing Specialist, Data Processing Specialist, Business Analyst Certificate - AMCAT.

Skills

- **Programming:** C, C++, Java, JavaScript, TypeScript, Python.
- **Frameworks & Technologies:** HTML/CSS, ReactJs, NextJs, ExpressJs, Framer Motion, Tailwind CSS, Bootstrap, Git, API Design, BERT, Machine Learning, Software Development.
- **Databases:** MongoDB, Oracle SQL, MySQL.
- **Tools:** GitHub, Postman.
- **Hosting & Deployment:** Firebase, Netlify, Vercel, Glitch, Replit.