

TANBIR HOSSAIN RAMIM

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EDUCATION

Ostbayerische Technische Hochschule Regensburg
Bachelor of Science – International Computer Science

Regensburg, Germany
Sep 2024 – Present

EXPERIENCE

Birnbaum Hotels

Working Student – Web & Digital

Erlangen, Germany
Sep 2025 – Present

- Led full rebuild of guesthouse website using **Next.js, React, TypeScript, and Tailwind CSS**; integrated Decap CMS to decouple content management, improving performance and maintainability.
- Designed and developed an internal employee management system with **Node.js REST APIs, PostgreSQL**, and role-based authentication, supporting concurrent multi-staff usage for scheduling and task tracking.
- Boosted SEO and page performance via server-side rendering, caching strategies, and optimized asset loading, reducing load time and improving booking usability.

Ostbayerische Technische Hochschule Regensburg
Student Assistant – AI Research

Regensburg, Germany
Jun 2025 – Present

- Built a real-time conversational AI negotiation simulator using **Node.js and TypeScript**, implementing dialogue state management, session handling, and context-aware response logic.
- Engineered a low-latency voice pipeline integrating **Vapi STT/TTS and OpenAI APIs**, handling streaming audio, speech-to-text transcription, and adaptive text-to-speech for live user interaction.

Dongyi Sourcing Limited

Front-End Developer

Dhaka, Bangladesh
Aug 2022 – Mar 2023

- Designed and shipped mobile-first responsive web applications using **React.js, JavaScript (ES6+), and Tailwind CSS**, integrating RESTful APIs for real-time data flow in production.
- Collaborated in agile cross-functional teams to deliver features on schedule while maintaining high code quality standards.

PROJECTS

FaceTube | *WebRTC, React.js, WebSockets, TensorFlow.js*

- Built a peer-to-peer video chat system handling WebRTC signaling and connection state, with browser-side facial emotion inference using optimized frame sampling for low latency.

VoiceMax | *Python, Speech-to-Text, LLM, Async Processing*

- Developed an asynchronous audio pipeline for speech-to-text, emotion classification, and LLM-based summarization, using batching and background processing to reduce response latency on large recordings.

Phone Hunter | *React.js, REST APIs, Client-side Caching*

- Created a product search and comparison platform normalizing heterogeneous data with filtering, sorting, and client-side caching to minimize API calls and improve UX.

TECHNICAL SKILLS

Languages: Java, C++, Python, JavaScript (ES6+), TypeScript, SQL

Backend: Node.js, REST APIs, PostgreSQL, Authentication, System Design

Frontend: React, Next.js, Tailwind CSS

AI & Realtime: OpenAI APIs, Vapi (STT/TTS), WebRTC, RAG, AI Agents

Tools & Platforms: Git, Docker, Linux, Vercel, Decap CMS

AWARDS & CERTIFICATIONS

Competitive Programming Achievements

- **Hackaburg 2025** – Top 10 out of 198 teams
- **Hack|Bay 2025** – Finalist
- **ICPC Asia Dhaka Regional 2021** – 17th place out of 200 teams
- **SUST Inter University Programming Contest 2023** – 22nd place out of 273 teams

Certifications

- RAG and Agentic AI Professional Certificate – **IBM**
- AI Agents Course – **Hugging Face**
- Introduction to Web Development with HTML5, CSS3, and JavaScript – **IBM**