Akib Arifeen

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EDUCATION

CITY UNIVERSITY OF HONG KONG   **Hong Kong**
Bachelor of Science: Computer Science   *CGPA: 3.33*
- Attained **Full Tuition Scholarship** for Outstanding Students (HK$145,000 per annum, tentative to 4 years)
- Relevant Courses: Data Structures, Software Design, Operating Systems, Computer Network

RELEVANT EXPERIENCE

Seth Biotech Limited   **Sham Shui Po, Hong Kong**
Web Development Intern   *Jun 2024 – Aug 2024*
- Enhanced Seth Biotech's main page boosting visitor engagement by 30%, while designing a responsive contact page using **SMTP** protocol.
- Manually labeled and corrected 1,000+ images (pigs, lambs, chickens) using **LabelImg**, preparing four distinct datasets for VLM model training.
- Utilized LLM models like **Gemma2, Llama2 and Llama3** for structured data extraction from healthcare documents, achieving 95% accuracy with a **StructuredOutputParser** to generate JSON output.

Edge AIot and Microelectronics (EdgeAIoTM) for Gifted Students, CityUHK   **Kowloon Tong, Hong Kong**
Teaching Assistant   *May 2025 - Present*
- Supported AI/GenAI/AIoT education for 50+ gifted secondary students, assisting with hands-on programming (**Python**, **TensorFlow**) and hardware projects.
- Provided technical troubleshooting for student projects, resolving 10+ software/hardware issues related to **AI model deployment** and **IoT system integration**

Talent and Education Development Office, CityUHK   **Kowloon Tong, Hong Kong**
Ambassador   *Jan 2024 - Present*
- Developed **object-oriented JavaScript** based image manipulation effects for a promotional webpage, resulting in **increased user engagement**.
- **Lead house committee** of 7 members organizing gatherings and high-profile events while maintaining online promotion channel through whatsapp, demonstrating strong organizational and leadership skills.

PROJECTS

Gravity Wars, Full-stack Game Development **[GitHub](#)**
- A real-time multiplayer .io inspired game featuring physics-based gravity mechanics, power-up systems, and cross-platform compatibility.
- Developed using Next.js, TypeScript, Tailwind CSS, Canvas. **[Deployed here](#)**

LoopCraft, Full-stack Web Development (in progress) **[GitHub repo](#)**
- A multi-track audio looping application that enables musicians to record, overdub, and arrange audio loops with real-time effects and tempo synchronization.
- Built with React, TypeScript, Next.js, and Tailwind CSS, featuring low-latency audio processing and cross-platform compatibility. **[Deployed here](#)**

Pulmonary Nodule Analysis System **[GitHub repo](#)**
- Utilized LangChain and Ollama with local LLMs to extract and structure detailed pulmonary nodule information from CT scan reports, ensuring data privacy and precise medical data extraction.

CS2204 HKIU Website **[GitHub repo](#)**
- Developed a university website with HTML, CSS, and JavaScript, integrating client-side validation for forms and simulating server interactions for dynamic content. **[Deployed here](#)**

SKILLS:

- Programming Languages: TypeScript, JavaScript, C++, Java, Python
- Frameworks & Libraries: Tailwind CSS, React.js, NEXT.js
- Backend & Database: MySQL, Node.js
- Developer tools: Git, Docker, Github, Google Collab
- Design tools & others: Figma, Adobe photoshop, Canva, Microsoft Excel