

BAKHTIYAR TEMIROV

Hong Kong

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Education

The Hong Kong University of Science and Technology (HKUST)

Expected Graduation: May 2026

BEng in Computer Science and Engineering

Hong Kong

Relevant Coursework: Object-Oriented Programming and Data Structures, Programming with C++, Java Programming, Computer Organization, Discrete Mathematics, Linear Algebra, Multivariable Calculus

Technical Skills

Programming Languages: C/C++, Python, Java, SQL, HTML, CSS, JavaScript

Frameworks & Tools: LangChain, Spring, React.js, Git, Bash

Experience

OpenClass Class discovery and booking app

July 2024 – Present

Software Engineering Intern

Hong Kong

- Utilized Supabase (Postgres) as a vector database to store and query text embeddings and built a full-stack chatbot that integrates query results.
- Refined a recommendation system by fine-tuning the LLaMA 3 LLM with embeddings derived from a Model-Based Collaborative Filtering method.
- Implemented a Docker Dev Container to streamline testing and deployment of new features to the project codebase.

Varmeego End-to-end IT solutions provider

June 2024 – July 2024

Junior Backend Developer

Hong Kong

- Built RESTful web services using Spring Framework and Maven to process HTTP GET requests and return JSON responses via a REST Controller.
- Deployed a Spring Boot server application for handling HTTP file uploads with a StorageService interface for storage layer interactions and implemented file validation using Apache POI based on System Requirements Specification (SRS).
- Upgraded documentation for backend service functions, including input data/file formats, database access, and interface design for Functional Specification Document (FSD).

Super Chain NLP & AI solutions provider

December 2023 – January 2024

Data Scientist

Hong Kong

- Developed NLP solutions using open-source LLMs (Llama 2, GPT-3.5 Turbo), focusing on fine-tuning and inference techniques such as LoftQ and Chain-of-Thought Prompting.
- Designed a real-time Text-to-Speech and voice cloning service with API integration capabilities.
- Created a domain-specific audio dataset to enhance speech recognition accuracy of OpenAI's Whisper ASR model. Model card: huggingface.co/btemirov/distill-whisper-jargon
- Employed vector stores and LLMs to build Retrieval Augmented Generation (RAG) models.
- Built web interfaces with Gradio for live demos and debugging during model training.

Projects

ust.ai Academic planning chatbot

April 2024

- Created a comprehensive dataset from the HKUST Undergraduate Course Catalog.
- Developed a chatbot to respond to student inquiries about undergraduate courses and assist in planning study paths.

Leadership / Extracurricular

Center for Global & Community Engagement (GCE)

September 2023 – Present

STEM Tutor

The Hong Kong University of Science and Technology

- Led robotics workshops with Micro:bit for 160 participants in the HKUST-ExxonMobil iSTEAM Program 2023.
- Engaged in the HKUST Engineering Alumni Reunion and STEM Day, demonstrating engineering projects and experiential learning to alumni and students.

Honors & Awards

HK SAR Government Scholarship Fund - Belt and Road Scholarship, Beyond Academic Admissions Scholarship

FIRST Global Finalist Alliances Award, FIRST Global Robotics Challenge, Dubai, UAE

Inspire Award, VEX Robotics World Championship, Louisville, Kentucky, USA