BAKHTIYAR TEMIROV

Hong Kong

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Education

The Hong Kong University of Science and Technology — **Expected Graduation: May 2026**
BEng in Computer Science and Engineering — *Hong Kong*

Relevant Coursework: Design and Analysis of Algorithms, Object-Oriented Programming and Data Structures, Programming with C++, Java Programming, Operating Systems, 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 − August 2024**
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.
- Created and refined a recommendation system using 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 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

The Zubin Network Morgan Stanley Code to Give Hackathon Winner — GitHub Link
- Developed a conversational AI agent using ChatGroq and Llama 3 with extensive knowledge about the Zubin Foundation and their programs in Hong Kong.
- Created a live demo application using Chainlit and integrated the chat interface into a web application.

UFC Fight Prediction Python, Pandas, scikit-learn — GitHub Link
- Trained a Random Forest Classifier based on ensemble learning to predict the outcomes of UFC fights using a comprehensive dataset that included significant strikes, submission attempts, and other fight statistics.
- Built and preprocessed fight data containing 7,459 UFC bouts by normalizing numerical features and performing feature engineering for high prediction rate.

Leadership / Extracurricular

Center for Global & Community Engagement (GCE) — **September 2023 − Present**
STEAM Tutor — *The Hong Kong University of Science and Technology*
- Led robotics workshops with Micro:bit for 160 participants in the HKUST-ExxonMobil iSTEAM Program.
- Engaged in the HKUST Engineering Alumni Reunion and STEM Day, demonstrating engineering projects and experiential learning to alumni and students.

Honors & Awards

Morgan Stanley Code to Give Hackathon 2024 - Winner
HKSAR Government Scholarship Fund - Belt and Road Scholarship, Beyond Academic Admissions Scholarship
FIRST Global Finalist Alliances Award, *FIRST* Global Robotics Challenge, Dubai, UAE