Saidbek Khalikov

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EDUCATION

The Chinese University of Hong Kong   Hong Kong
Bachelor of Science in Computer Science   *Aug 2022 – May 2026*
- **Major GPA: 3.7/4.0** (Dean's List, 2023-2024)
- Received Full-Ride Admission Scholarship with Honors at Entrance
- Related Coursework: Machine Learning: A-, Probability: A, Statistics: A, Data Structures: A-
- Event Manager at CAA, International Ambassador at LSP

EXPERIENCE

GenAI Software Developer Intern   June 2024 – Aug 2024
Career Hackers   *Kowloon Tong, Hong Kong*
- Engineered a multi-chain LLM model service with custom templates for diverse characters using **Node.js, MongoDB, LangChain.js**, and **Azure OpenAI Service**.
- Contributed to a virtual interview simulation project using **Next.js, React, Tailwind CSS**, and **Typescript**. Developed a full-featured document CRUD platform with **Express.js** and **Amazon CloudFront/S3**.
- Developed a user management platform and scaled it to handle 100k users.

Student Research Assistant   September 2023 – May 2024
Department of Sociology, The Chinese University of Hong Kong   *CUHK, Hong Kong*
- Built a web application with **Vue.js, Bootstrap**, and **Firebase**. Automated deployment using **GitHub Actions** for streamlined workflow management.
- Automated cleaning of a dataset with 300+ parameters using **Pandas** in **Python** for efficient preprocessing.

Data and Thermal Image Analytics Intern   June 2023 – August 2023
Meridian Innovation   *Hong Kong Science Park, Hong Kong*
- Built a **Django** web app for real-time server data visualization with **AJAX (jQuery), Bootstrap**, and **Plotly**. Reduced waiting times by 10%-20% and automated data processing to enhance data analysis efficiency.
- Researched and optimized a new filter to reduce flicker noise in raw images, achieving performance improvements of 200%-300%. Authored a Research Note detailing optimal implementation strategies.
- Developed a framework to emulate, analyze and optimize the performance of different Image Denoising filters using **Python, Matplotlib, Scikit-Optimize, SciPy** and **NumPy**.

PROJECTS

Resource App | *React, Material UI, Express.js, MySQL, Docker, Nginx*
- Developed platform for Kyrgyzstan-based startup for sharing and hosting resources to prepare for National Test.
- Reduced the overall size of application by more than 80% with **Docker multi-stage builds**.
- Implemented authentication and anti-piracy measures.

SBSA | *Pandas, Transformers, LangChain, Scikit-Learn, Fast API, React*
- Developed a **React** app for sentiment-based stock analysis (SBSA) using news data for 11 stock options.
- Generated training dataset using **Gnews API** and **Yahoo Finance**. Built multi-stage model for aspect-based sentiment analysis of news data using **Transformers**, and **LangChain**.
- Performed model selection by validation. Performed Linear Regression, Lasso Regression, Decision Tree Regression, and Support Vector Regression using **Scikit-Learn**.

AWARDS

- Attained first place in the national Math Olympiad - 9th, 10th grade.
- Ranked 10/ 50000+ in National Kyrgyzstan Examination (Golden Certificate).

TECHNICAL SKILLS

Languages: Python, C/C++, C#, Java, JavaScript, TypeScript, HTML/CSS, SQL.
Technologies: Bootstrap, Tailwind CSS, React, Next.js, Django, Express.js, MySQL, MongoDB, Docker.
Libraries: Pandas, NumPy, Matplotlib, PyTorch, Scikit-Learn, LangChain, Transformers.
Tools: AWS, Git, GitHub Actions, DigitalOcean, Kurbernetes, Firebase