ASSANALI BATYRKHAN

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Kowloon Tong, Hong Kong SAR

EDUCATION

- **City University of Hong Kong** *09/24 - 06/28*
  Bachelor of Science in Data Science Kowloon Tong, Hong Kong
  ◦ **Cumulative GPA: 3.91/4.3**
  ◦ **Relevant Coursework:** Computer Programming(Python, C++) (A+), Linear Algebra(A+), Calculus(A), Data Visualization (A), Introduction to Data Science

EXPERIENCE

- **Career Hackers | Lantern AI [🌐]** *06/25 - present*
  Full-stack GenAI Software Engineer Intern Hong Kong, China
  ◦ Engineered a core feature of the GenAI platform by integrating **Gemini API** and **OpenAI API** into an **Next.js-Express.js** app, applying advanced prompt engineering to achieve low latency and controllable outputs
  ◦ Collaborated in a **10-engineer team** on system architecture, contributing to design decisions for a scalable **MongoDB** schema and robust backend infrastructure, ensuring code quality and maintainability
- **ActiviKid Limited [🌐]** *01/25 - 04/25*
  Software Engineer Intern Hong Kong, China
  ◦ Engineered a localized **React.js** web app using **react-i18next** to support English/Cantonese, improving accessibility for **100%** of Hong Kong users
  ◦ Architected a zero-downtime deployment pipeline on a linux VM using **NGINX**, **Let's Encrypt certbot**, and **Bash scripting**, achieving 99.9% uptime and reducing manual deployment time by **5 times**
- **Brokerage | Freedom Bank [🌐]** *06/24 - 08/24*
  Backend Developer Intern Almaty, Kazakhstan
  ◦ Built the initial backend for Freedom Bank's Priority Banking with **Django REST Framework (DRF)**, **PostgreSQL** and **docker-compose**, earning a return offer in a TOP-5 banking system in Central Asia
  ◦ Developed an **API** integration with a financial company using **DRF** and **Pytest**, enabling new lending partnerships

PROJECTS

- **Space&Time Dashboard & Blockchain data pipeline (ranked #2/107 in the Hackathon)** *11/2024*
  Tools: Python, pandas, OpenAI API, Google Docs API, Firebase API, Docker [🔗]
  ◦ Engineered an asynchronous Python data pipeline to process **1,000+** entries from the Space&Time API, reducing data retrieval latency by **20%**.
  ◦ Integrated **OpenAI API** and **Google Docs API** to automate the analysis of retrieved blockchain data and the generation of **20+** reports weekly
  ◦ Deployed the service as a multi-container **Docker** application with **docker-compose**, achieving **99.9%** uptime for data management and cutting deployment time by **60%**.
- **Household services: Yandex Data Analysis project (ranked #1/25 in the Hackathon)** *03/24 - 04/24*
  Tools: Python, pandas, numpy, sklearn, matplotlib, scipy, Yandex Dashboard [🔗]
  ◦ Performed rigorous data cleaning and feature analysis, using statistical methods (Spearman's R, Cramer's V) to identify key correlations and impute outliers
  ◦ Validated **4 statistically significant feature relationships** using non-parametric hypothesis tests (Mann-Whitney U, Kruskal-Wallis)
  ◦ Developed a linear regression model for temperature prediction, achieving the project's best possible **R^2 of 0.23** and a **MAPE of 9.93%**

LEADERSHIP EXPERIENCE

- **PALSI Leader —** tutoring **100+** 1-year UG students Calculus(MA1508) 3+ hours/week

AWARDS & ACTIVITIES

- **CityU Full Scholarship Recipient** which covers 100% annual tuition fees
- **Dean's List** for outstanding academic results in **every** semester in the university
- **CityU Tiger student** TOP 10% out of 2000+ students in the College of Computing

SKILLS

- **Programming Languages:** Python, JavaScript, SQL, C++, TypeScript, HTML/CSS
- **Technologies & Tools:** Express.js, FastAPI, Django REST Framework(DRF), Next.js, React.js, Git, Docker
- **Data Science & Machine Learning tools:** pandas, numpy, scipy, seaborn, matplotlib, sklearn
- **Languages:** English(Fluent), Russian (Fluent), Kazakh(Mother Tongue)