Ayazhan Kadessova

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Experience

JPMorgan Chase & Co.   **Central, Hong Kong**
Software Engineering Intern, Global Technology Infrastructure & Tech Production Delivery Team   *06/2023 – Present*

Streamlined Observability as Code (Dynatrace integration with Terraform), Automated CI/CD (Jenkins, Groovy, Jules, Bash)
- Accomplished reduction in setup time for infrastructure resources by integrating a pipeline to automate setup of resources required for monitoring and performance management of in-house application services to Dynatrace.

Overall Application Health Monitoring (Gaia Portal, Grafana)
- Built an Overall Health Dashboard in Grafana to monitor 30+ services in a production environment of in-house application.
- Configured alerts for synthetic monitoring to ensure timely issue resolution, minimize downtime, improving user experience.

Diversity, Equity, Inclusion Chatbot (Nodejs, Typescript, Postman, API).
- Collaborated with five interns to build a full-stack chatbot that utilizes NLP model fine-tuned on internal documentation to provide guidance on fostering a diverse work environment at JP Morgan. Responsible for the backend and model fine-tuning.

JP Morgan Sports Platform (SQL, H2 Database, Java Spring boot)
- Secured **Second place in JP Morgan Global Hackathon.** Worked with senior engineers to build a consolidated platform for JPM employees to easily join and book sporting activities, previously scattered across multiple websites, to improve user experience.
- Part of Backend team (database management). Currently in the development stage.

Super Cat Technology Limited   **Kowloon, Hong Kong**
Natural Language Processing Engineer   *06/2022 – 09/2022*

Automated Machine Learning (Python, PyCaret, MongoDB, Fastapi, Streamlit)
- Developed AutoML's Classification part, which finds the most accurate ML models for input data based on user-defined criteria and classifies the target data. Used by the companies for customers' churn prediction.
- Boosted T5-based Table QA accuracy from 60% to 88% by filtering columns through semantic search and checking their relevancy.

Multi-label text classification (Python, PyTorch, transformers)
- Upgraded text classification model from binary (positive/negative) to multi-label (1-5). Integrated a new model in the company Performance Analysis pipeline for optimal customer feedback insight and customer service software for prioritizing queries.

Alphalex Capital Management   **Central, Hong Kong**
IT Investment Intern   *03/2022 - 05/2022*

- Created NFT Collection (ERC-721A) on Solidity from Node.js-generated art to compare user-friendliness of wallets associated with FLOW vs Ethereum blockchains. As a result of my function/cost/user-friendliness testing, FLOW was chosen. **Shareable Projects**

Education

Hong Kong Baptist University   **Kowloon, Hong Kong**
BSc (Hons) in Computer Science, Computing and Software Technologies Concentration, cGPA: 3.92/4.0, top 1% of class   *09/2021 – Expected 2025*

Relevant Courses: Data Structures and Algorithms; Database Management; Python and Applications; Problem Solving Using Object Oriented Approach in Java; Statistics, Probability, Calculus; Applied Linear Algebra; Causal Inference with R; Cybersecurity and Data Privacy.
Awards: **3rd team place in AUHack** Hackathon by Aarhus University in Denmark; **Finalist of Techathon 2023** by Hong Kong Science and Technology Park; Finalist of Quest for Securities & Investment Elites (QSIE) Case Analysis Competition 2022.
Department of Computer Science Special Award 2022 and 2023: Recognized among 404 students two years in a row for academic excellence, contribution to Research on Location Analytics System for Smart AED Operations and Peer Mentoring 6 freshmen CS students.

Activities

Google   **Kowloon, Hong Kong**
Women Techmakers Ambassador   *09/2022 - 05/2023*

- Organized, participated in initiatives to promote diversity and inclusion in tech industry, focusing on empowering women in tech.
- Conducted **hands-on web scraping using Python workshop** for 100 participants with various tech and non-tech backgrounds. Explained HTML, CSS, and JS basics, demonstrated data extraction and data visualization techniques with Python libraries.

Projects

LEarnBU, web-based financial literacy game (HTML, CSS, Javascript, Financial Management)
- Created a web-based financial literacy game with different storylines for each character to help HKBU students learn personal financing. Engaged 50 players and based on pre-game and post-game scores, helped 82% acquire knowledge in investing, retirement planning, credit.

FAFA, cargo transportation business model (Python, Beautiful Soup, Web scraping, Data Science)
- Developed an open-source project, scraping data from cargo transportation website in Kazakhstan & CIS. Conducted exploratory data analysis to suggest three best business models for highest profit, considering route, truck type, products needed. Wrote a detailed blog post.

Programming Skills

Certificates: Hashicorp Certified – Terraform Associate (003), AWS Machine Learning Foundations.
Languages/Frameworks: Python (proficient), Java/SQL/JavaScript/HTML/CSS(intermediate), TypeScript/C++(prior experience).
Frameworks/Tools: Terraform/Git (proficient), Dynatrace, Jenkins, Jules, React.js (intermediate), NodeJS, Cloud(AWS, Azure).