Kenan Rustamov

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WORK EXPERIENCE

JPMorgan Chase, *Software Engineer II*   Aug 2023 – Aug 2024 | New York City
- Built one of the most frequently utilized APIs at the bank to distribute customer data, achieving high scalability and performance using Spring Webflux, CockroachDB, and Apache Cassandra
- Developed novel custom Kerberos authentication integration for PostgreSQL R2DBC database driver, modularized it to enable three other teams to leverage it for their applications
- Instituted multi-level pagination to reduce response load from 10,000 records to 20 records, improving performance by 25%
- Created a filtering mechanism, allowing users to request specific data sets, resulting in a 15% reduction in average request times
- Containerized application with Docker, orchestrated using Kubernetes, and added geographic load balancing enabling horizontal scaling and accommodating 3x more traffic effectively

BNY Mellon, *Lead Software Engineer*   Jan 2023 – Aug 2023 | Pittsburgh
- Spearheaded development of web application that served 50,000 internal users, allowing them to request changes in work arrangements, saving an estimated $500k in billable hours, utilizing Spring Boot, Angular, TypeScript, and Oracle SQL
- Implemented role-based access control using Spring Security, reducing unauthorized access requests and simplifying access management.
- Mentored 2 junior developers through structured knowledge-sharing sessions, empowering them to enhance skills, collaborate effectively, and deliver high-quality code

BNY Mellon, *Software Engineer*   Aug 2021 – Jan 2023 | Pittsburgh
- Architected workflow logic using hash map graph implementation, enabling dynamic editing of workflow steps for improved user efficiency
- Automated approval workflow steps, achieving 30% reduction in approval times and increasing productivity
- Optimized SQL queries by indexing and eliminating inefficient joins, resulting in 30% decrease in query execution times

BNY Mellon, *Software Engineering Intern*   Jun 2020 – Aug 2020 | Pittsburgh

Bentley Systems, *Software Engineering Intern*   May 2019 – Aug 2019 | Pittsburgh

EDUCATION

Johns Hopkins University, *Master of Science in Computer Science,*   Aug 2024 – present
Human Language Technology Focus   Baltimore, United States
- Conducting novel AI research on the creation and evaluation of a system that enables Large Language Models (LLMs) with Retrieval-Augmented Generation (RAG) to dynamically reflect changes in underlying documents within generated answers
- Teaching Assistant for Deep Learning (2 Semesters)
- Rubenstein Fellowship - Awarded to highly accomplished master's graduate students
- Relevant Courses: Natural Language Processing, Machine Learning, Machine Translation, Information Extraction, Replicable Machine Learning

University of Pittsburgh, *Bachelors of Science in Computer Science*   Aug 2017 – May 2021
  - Summa Cum Laude (Highest Honor), Departmental Honors, Dietrich Scholar (Scholarship)

PROJECTS

ICY: Pokemon Battler Using Deep Reinforcement Learning 🔗
  - Engineered AI agent for turn-based video game using TensorFlow, KerasRL, OpenAI Gym API, and PokeEnv, employing Deep-Q Reinforcement Learning with deep neural network utilizing scaling opponent strength, dropout, normalization, and tuning to achieve 90% win rate against human-like heuristic model

AWARDS AND CERTIFICATES

AWS Cloud Practitioner Certificate   Aug 2023

New Grad of the Year Award, *BNY Mellon*   Mar 2023
  Given to 5 early career employees out of 500 for my work in developing the work arrangement application

Top 5 in Pitt Challenge Hackathon, *University of Pittsburgh* 🔗   Nov 2019
  Health/Software based hackathon with around 100 applicants

SKILLS

Languages: Java, Python, JavaScript, SQL
  Technical Skills: Pytorch, Pandas, Spring, Docker, Reactive Programming, Kafka, Cloud Computing, Full-Stack Development, Deep Learning, Natural Language Processing, Machine Learning, Splunk