Kenan Rustamov

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WORK EXPERIENCE

JPMorgan Chase, *Software Engineer II*   Aug 2023 – Aug 2024 | NYC, NY

- Engineered high-throughput, low-latency customer data API using reactive Java (Spring Webflux) & non-blocking I/O, interfacing with CockroachDB & 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
- Optimized API response time 25% & reduced server load via efficient multi-level server-side, keyset pagination
- Developed dynamic data filtering engine utilizing predicate pushdown, reducing avg. API latency by 15%
- Managed app lifecycle via Docker/Kubernetes (Helm charts) & geographic load balancing for 3x traffic growth

BNY Mellon, *Lead Software Engineer*   Jan 2023 – Aug 2023 | Pittsburgh, PA

- Led full-stack dev (Spring Boot, Angular, Oracle SQL) of internal workflow app for 50k users, saving $500k
- Designed & enforced RBAC (Spring Security, JWT), securing REST endpoints & integrating with IDM systems
- Mentored 2 junior devs in TDD practices w/ pair programming & code reviews, improving team velocity

BNY Mellon, *Software Engineer*   Aug 2021 – Jan 2023 | Pittsburgh, PA

- Architected configurable workflow engine using graph-based structure (hash map adjacency list) for dynamic state transitions (New Grad of the Year Award)
- Implemented conditional logic by parsing external configurations to dynamically adjust workflow paths based on user attributes (role, location, hierarchy), reducing avg. cycle time 30%
- Boosted critical Oracle SQL query speed 30% via plan analysis, indexing, query rewrite, & materialized views

EDUCATION

Johns Hopkins University, *Master of Science in Computer Science (Thesis)*   Aug 2024 – Present | Baltimore, MD

- Leading first-author AI research for a publication under Jason Eisner by designing, building, and evaluating a novel reactive RAG system, dataset, and framework that enables LLM answers to dynamically update as source documents evolve

University of Pittsburgh, *Bachelor of Science in Computer Science*   Aug 2017 – Aug 2021 | Pittsburgh, PA

- Summa Cum Laude (Highest Honor) | Dietrich Scholar | Ran 2 Clubs | Top 5 in Pitt Challenge Hackathon

PROJECTS

Pokémon Battler Using Deep Reinforcement Learning

- Engineered AI agent (TensorFlow, OpenAI Gym) using Deep Q-Networks (DQN); achieved 90% win rate vs. heuristic model via hyperparameter tuning and curriculum learning (scaling opponent difficulty)

SKILLS

Programming languages: Python | TypeScript | Java | JavaScript | SQL

Frameworks & Libraries: React | AWS | CockroachDB | Cassandra | OpenAPI | Mockito | Kafka | Pytorch | Pandas | RAG | Reactive Programming | Docker | Kubernetes | Angular | Spring | Spring Webflux | GitLab CI | Prometheus | Grafana | Hugging Face | LangChain