

Kenan Rustamov

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WORK EXPERIENCE

JPMorgan Chase, Software Engineer II

08/2023–08/2024 | *New York, NY*

- Built and owned firm-wide Customer Data API as microservice (Spring WebFlux, CockroachDB, Cassandra); onboarded 10 client apps with 0 incidents; scaled to 12k req/s at 50ms p95 with 99.99% response success rate.
- Instrumented end-to-end telemetry and monitoring using OpenTelemetry, exporting metrics to Prometheus and logs to Splunk, visualized in Grafana; reduced mean time to resolution (MTTR) from hours to minutes.
- Implemented custom Kerberos integration to enable async CockroachDB client; brought 35% reduction in p95 latency and doubled throughput under load; packaged as reusable module that was adopted by 3 other teams.
- Automated CI/CD in GitLab with staged unit, integration, and performance test gates and blue-green rollouts; achieved zero downtime deployments.
- Developed a server-side filter engine that compiles client predicates into prepared, index-aligned queries with keyset pagination; cut p95 latency by 30% and reduced payload size by 25%.
- Mentored 2 junior engineers, producing onboarding docs and practice problems that halved ramp-up time (8 to 4 weeks) and increased code-review throughput by 25%.

BNY Mellon, Lead Software Engineer

01/2023–08/2023 | *Pittsburgh, PA*

- Owned work arrangement platform serving 50k employees; replaced email/spreadsheet approvals, delivering \$500k in annual savings.
- Shipped a configurable Workflow Admin Panel (Spring Boot, Angular); enabled HR no-code policy updates and shortened lead time from 2 weeks to 2 days.
- Modernized the Angular UI for accessibility, inline validations, and bulk manager actions; lowered form abandonment by 20% and average submission time by 35%.

BNY Mellon, Software Engineer

08/2021–01/2023 | *Pittsburgh, PA*

- Built REST APIs and Activiti workflows with declarative rules based on employee type, reporting hierarchy, and region; reduced cycle time by 30%; recognized with firm-wide New Grad of the Year (2022) award.
- Optimized Oracle SQL via plan analysis, indexing, and materialized views; improved p95 query time by 30%.
- Established smoke, integration, and regression test suites with CI hooks; decreased defect escape rate by 40%.

BNY Mellon, Software Engineer Intern

06/2020–08/2020 | *Pittsburgh, PA*

Bentley Systems, Software Engineer Intern

05/2019–08/2019 | *Pittsburgh, PA*

EDUCATION

Johns Hopkins University

08/2024–12/2025 (Expected) | *Baltimore, MD*

Master of Science in Computer Science (Thesis); GPA: 3.85

- Awarded Rubenstein Fellowship.
- Thesis: First-author LLM research under Professor Jason Eisner on reactive Retrieval-Augmented Generation.
- Teaching Assistant: "Machine Learning: Deep Learning" (3 semesters)
- Relevant Courses: Natural Language Processing, Machine Learning, AI System Design and Development

University of Pittsburgh

08/2017–08/2021 | *Pittsburgh, PA*

Bachelor of Science in Computer Science; Minor in Chemistry; GPA: 3.85

- Summa Cum Laude (Highest Honors) | Dietrich Scholar | Departmental Honors | Dean's List
- Built two student organizations (Minority Association in Computing, Oakland Outreach); recruited 40+ members and raised \$5k from 6 corporate sponsors to run mentorship and outreach programs.

RESEARCH

Live Query: Reactive Retrieval-Augmented Generation (Thesis) 12/2025 (Expected)

First-author thesis research with Prof. Jason Eisner, CLSP, Johns Hopkins University

- Designed a reactive RAG framework that updates answers as data sources evolve (FRP-inspired).
- Built a Wikipedia revisions benchmark with an LLM change-aware question generator to simulate staleness.
- Built an eval suite for reactive RAG measuring faithfulness/recall, freshness volatility, and cost; benchmarked push, pull, and predictive refresh to balance quality vs. spend.

PROJECTS

Deep Reinforcement Learning Pokémon Battler

- Built a Deep Q-Network agent (Pokémon Showdown, random team); 90% win rate vs. scripted heuristic and 100% vs. random over 1,000 matches; released training/evaluation pipeline and CLI.

SKILLS

Languages:	Python Java TypeScript/JavaScript SQL
Backend & Data:	Spring Boot/WebFlux OpenAPI PostgreSQL CockroachDB Cassandra
DevOps & Monitoring:	Docker Kubernetes GitLab CI BlazeMeter OpenTelemetry Splunk
Frontend:	React Angular
AI/ML:	Transformers PyTorch Hugging Face LangChain

CERTIFICATIONS

- AWS Certified Cloud Practitioner | [Verify Certificate](#)