

Riad Mukhtarov

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EDUCATION

University at Buffalo, New York - BS in Computer Science Awards: Undergraduate Teaching Assistant Award, Multiple Dean's List Honors	Aug 2020 – May 2024 Buffalo, New York
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EXPERIENCE

Information and Communication Technology (ICT) Assistant <i>COP29 United Nations Climate Change Conference</i>	Oct 2024 – Nov 2024 Baku, Azerbaijan
Head Teaching Assistant - Data Structures <i>State University of New York at Buffalo</i>	Aug 2022 – May 2024 Buffalo, New York
Software Engineer <i>EZ Pro Billing and Collection Inc.</i>	Sep 2021 – May 2023 New York, New York
<ul style="list-style-type: none">Led data structures instruction (asymptotics, graphs, trees, hashing) in Scala/Java for 1,000 studentsManaged 20 TAs, coordinated labs/exams, and served as the primary liaison between students and facultyBuilt and graded assignments, quizzes, and exams while enforcing academic integrity standardsRan weekly reviews and debugging sessions, supporting 200+ students with hands-on helpStreamlined course logistics and student support workflows to improve consistency and outcomes	

PROJECTS

MatchSentinel <i>GitHub Java, Spring Boot, RabbitMQ, PostgreSQL, Liquibase, Docker, AWS EC2</i>	Jan 2026
<ul style="list-style-type: none">Designed an event-driven microservices architecture spanning scoring, rules, cases, notifications, and reportingBuilt async inter-service communication with RabbitMQ and idempotent consumers for safe reprocessingImplemented per-service databases with Liquibase migrations plus environment-based configurationDeployed to AWS EC2 using Docker Compose, Linux networking, and public service endpointsValidated production-like deployment using cloud-based infrastructure and containerized services	
FinFlow — Wallet API <i>GitHub Java, Spring Boot, Spring Security, JWT, MySQL, JPA</i>	Jan 2026
<ul style="list-style-type: none">Implemented secure authentication and authorization using JWT-based stateless sessionsDesigned relational data models using JPA/Hibernate with optimized repository queriesApplied security best practices including password hashing, token expiration, and request filteringDeveloped integration tests to validate authentication flows and protected endpoints	
Raft-Based Consensus Algorithm <i>Go, UDP, Protobuf</i>	May 2024
<ul style="list-style-type: none">Implemented Raft consensus with leader election, log replication, and fault toleranceBuilt concurrent server components to maintain consistency across distributed nodes	
Distributed Hash Table (Kademlia) <i>Go, TCP, Protobuf</i>	Feb 2024
<ul style="list-style-type: none">Implemented a peer-to-peer distributed storage system using Kademlia routingAchieved efficient $O(\log n)$ lookups and resilient data routing across nodes	

TECHNICAL SKILLS

Languages: Java, Python, Go (familiar: Rust, JavaScript, Scala, C)
Backend: Spring Boot, Spring Security, REST APIs, JWT, FastAPI
Architecture: Microservices, Event-Driven Systems, Async Messaging, Idempotent Consumers, Distributed Systems, Audit Logging, System Reliability
Databases: PostgreSQL, MySQL, MongoDB, JPA/Hibernate, Liquibase, SQL
Cloud/Infra: AWS EC2, Linux, Docker, Docker Compose, SSH, Environment-Based Configuration
Testing/Tools: JUnit, Testcontainers, Integration Testing, Git, GitHub, CI/CD Basics