

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 Communication Technology Assistant <i>COP29 United Nations Climate Change Conference</i>	Oct 2024 – Nov 2024 Baku, Azerbaijan
<ul style="list-style-type: none">Supported ICT operations for 500+ UN delegates by managing core network, AV, and collaboration systemsResolved hybrid session issues in real time, preventing delays and ensuring smooth communicationImproved system security through stronger access controls, device hardening, and data handling practicesDeployed and optimized hardware and software with vendors, increasing reliability and reducing repeat issues	
Head Teaching Assistant - Data Structures <i>State University of New York at Buffalo</i>	Aug 2022 – May 2024 Buffalo, New York
<ul style="list-style-type: none">Taught asymptotic analysis, sequences, graphs, trees, hash tables, and more in Scala/Java to about 1000 studentsManaged 20 TAs, coordinated course logistics, and acted as the primary liaison between students and facultyMonitored and graded assignments, exams, and quizzes as well as check them for ethics and integrityConducted reviews weekly, debugging and troubleshooting assistance in Scala/Java for almost 200 studentsImproved course logistics and helped create a supportive learning environment	
Teaching Assistant - Multiple CS Courses <i>State University of New York at Buffalo</i>	Aug 2022 – May 2024 Buffalo, New York
<ul style="list-style-type: none">Supported instruction in Web Apps, Software Quality, Comp Org, Discrete Structures, and Intro to CSMonitored lab, midterm and final exams to ensure ethical academic excellenceManually tested the code of 400+ students to secure flexibility of examining the softwareLed multiple labs to efficiently deliver the course material to the students	
Software Engineer <i>EZ Pro Billing and Collection Inc.</i>	Sep 2021 – May 2023 New York, New York
<ul style="list-style-type: none">Engineered Python/MongoDB TCP-handler and ADA-compliant HTML/CSS/JavaScript, using Agile practicesAutomated team point allocation through dynamic login and registration system, upon successful task completionLeveraged Web-Sockets for real-time chat, reducing workload by 90%, earning promotion	

PROJECTS

FinFlow Wallet API <i>GitHub</i> Java, Spring Boot, Spring Security, JWT, MySQL, JPA, JUnit	Jan 2026
<ul style="list-style-type: none">Implemented secure RESTful authentication and authorization using JWT-based stateless sessionsDesigned and optimized relational data models with JPA/Hibernate and authored SQL-backed repository queriesApplied security practices including password hashing, token expiration, and request-level authentication filteringDeveloped integration tests to validate login, token issuance, and protected endpoint access	
RAFT-based Consensus Algorithm <i>Go, UDP, Protobuf</i>	May 2024
<ul style="list-style-type: none">Implemented a Raft-based algorithm, managing leader election, log replication, and state machine transitionsEngineered fault-tolerant consensus protocol for enhanced system fault tolerance and consistency across the clusterDeveloped and tested the RaftM server to handle concurrent operations and client interactions efficiently	
Distributed Hash Table <i>Go, TCP, Protobuf</i>	Feb 2024
<ul style="list-style-type: none">Built a peer-to-peer storage system using Kademlia routing for $O(\log n)$ node lookupsOptimized data reliability with a recursive search algorithm to maintain dynamic network connectivityDesigned a Protobuf-based message protocol for high-performance data retrieval across multiple platformsIntegrated and tested nodes to ensure scalability and consistency in simulated distributed environments	

TECHNICAL SKILLS

Programming Languages: Java, Python, Go (<i>familiar:</i> JavaScript, Scala, C)
Backend Development: Spring Boot, Spring Security, RESTful APIs, JWT Authentication
Databases & SQL: MySQL, PostgreSQL, MongoDB, JPA/Hibernate, SQL Query Design
Systems & Infrastructure: Linux, Git/GitHub, Docker, CI/CD basics, SSH