

# Riad Mukhtarov

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## EDUCATION

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

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

## PROJECTS

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

## TECHNICAL SKILLS

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