

Ilia Mirzaali

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EDUCATION

University of Twente <i>BSc, Computer Science</i>	Enschede, Netherlands <i>Sep. 2025 – Present</i>
Twente Pathway College <i>General Engineering Stream</i>	Enschede, Netherlands <i>Sep. 2024 – June 2025</i>
National Organization for Development of Exceptional Talents (Sampad) <i>High School Diploma, Mathematics</i>	Tehran, Iran <i>Graduated June 2023</i>

EXPERIENCE

Quicksports B.V. <i>Tech Lead</i>	Enschede, Netherlands <i>Oct. 2025 – Present</i>
- Lead and mentor a team of developers and interns on the admin dashboard, owning onboarding, code reviews, and task delegation to maintain delivery velocity and code quality. - Architected a real-time event-driven messaging microservice using Node.js, Socket.IO, and Redis Pub/Sub with MongoDB caching, delivering near-instant updates to sports community members. - Led migration of 5 microservices from Heroku to Google Cloud Run with Cloud Build CI/CD, containerized deployments, and cost-optimized autoscaling, significantly reducing infrastructure costs. - Own the Organizer Dashboard end-to-end: gathering requirements directly from customers, iterating on feedback, and shipping full-stack features with Vue 3, Vuetify, and Node.js.	
<i>Full Stack Developer</i>	<i>May 2025 – Oct. 2025</i>
- Developed and shipped the Communities feature and a rebuilt admin dashboard, contributing to a 20% increase in user base. - Built and maintained APIs, AI pipelines, and internal tools using Node.js, Express, MongoDB, Redis, and Heroku. - Involved across the full development cycle from coding to testing, deployment, and CI/CD, with regular security reviews and vulnerability testing.	
Ramsy <i>Founder</i>	Enschede, Netherlands <i>Mar. 2026 – Present</i>
- Founded a cybersecurity consultancy offering AI-augmented penetration testing, red teaming, and API security audits to businesses in the Netherlands. - Delivered audit-ready reporting for compliance-driven clients, with prior engagements including El Nino B.V., Epartment, and Cofano.	
C3ntaur <i>Co-Founder</i>	Enschede, Netherlands <i>Sep. 2025 – Present</i>
- Co-founded a student-led Capture the Flag (CTF) team, currently ranked among the top CTF teams in the Netherlands. - Organize practice sessions, coordinate online competition participation, and onboard new members to web, crypto, and reverse engineering challenges.	
DroneTeam Twente <i>Dronobox Engineer</i>	Enschede, Netherlands <i>Sep. 2025 – Present</i>
- Co-organize Dronobox events, mentoring students in building and flying drones from custom kits. - Perform hands-on maintenance, troubleshooting, and repair for the student drone fleet and larger advanced team drones.	

- Performed penetration testing on bug bounty and private programs, focusing on web application security.
- Reported 10+ vulnerabilities, including several responsible disclosures, with total bounties exceeding 1,000.
- Applied OWASP methodologies, Burp Suite, and custom automation scripts to identify and validate issues.

PROJECTS

Khor — Bio-Music from Kernel Activity | C++, eBPF, React, TypeScript, Vite

- Built a real-time Linux daemon that turns kernel activity into music using eBPF tracepoints to collect live system metrics (process exec, network, scheduler, disk I/O, interrupts).
- Designed a signal pipeline that normalizes raw kernel events into control signals, feeding a custom C++ polyphonic synthesizer with multi-channel MIDI and OSC output for DAW integration.
- Shipped a React + TypeScript web dashboard for live control and visualization of the running system, communicating with the daemon over a low-latency transport.

Cedis — Redis Reimagined in C++ | C++17, Boost.Asio, CMake, GitHub Actions

- Engineered a high-performance, Redis-inspired in-memory key-value store from scratch in modern C++17, using STL containers for fast data storage.
- Implemented an asynchronous, non-blocking network server using Boost.Asio to efficiently manage multiple concurrent client connections.
- Developed a modular command parser and dispatcher for the Redis Serialization Protocol (RESP), supporting commands like SET, GET, PING, and ECHO.
- Established a cross-platform build system with CMake and automated the CI/CD pipeline using GitHub Actions for multi-platform builds (Windows, macOS, Linux).

ACHIEVEMENTS

- Achieved **3rd Place** in the Twente Algorithmic Programming Contest (TAPC).
- Qualified for the Benelux Algorithmic Programming Contest (BAPC) and competed in Delft.
- Secured **2nd Place** among University of Twente teams at BAPC, qualifying for the Northwestern European Regional Contest (NWERC).

SKILLS

Programming Languages: C/C++, Python, Java, PHP, JavaScript, TypeScript, Node.js, SQL, Bash, HTML/CSS

Frameworks & Libraries: Express.js, Vue 3, Vuetify, React, Socket.IO, Flask, FastAPI, Redis, MongoDB, Boost.Asio, SDL2, CMake, vcpkg, OpenSSL, REST API design

Tools: Git, Postman, Wireshark, Burp Suite, Nginx, Linux, Ghidra, eBPF, Heroku, Tailscale

DevOps & Cloud: Docker, CI/CD (GitHub Actions, Cloud Build), Google Cloud Run, AWS (EC2, S3, Lambda), Linux Server Management, systemd, crontab

Soft Skills: Problem-Solving, Communication, Teamwork, Adaptability, Fast Learner, Self-Starter

Languages: Persian (Native), Turkmen (Native), English (Full Professional), Turkish (Professional), Dutch (Elementary)