

Yasmeen Elaian

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Senior Software Engineer

Professional Summary

Senior **Software Engineer** with 5+ years of hands-on experience in **Real-Time Communication (RTC)** systems, specializing in **video/audio streaming, VoIP services, and high-performance distributed systems**. Strong expertise in **C++**, multithreading, networking, and scalable streaming architectures. Proven ability to design and implement end-to-end RTC solutions using **WebRTC, SIP, RTSP, HLS**, and media frameworks such as **GStreamer and FFmpeg**. Experienced in building mission-critical platforms for real-time, low-latency communication in multi-platform environments.

Core Technical Skills

Programming & Architecture

- C++ (STL, Modern C++)
- Object-Oriented Programming (OOP)
- Object-Oriented Design (OOD) & Design Patterns
- High-performance & low-latency system design

Real-Time Communication & Streaming

- Real-Time Video & Audio Streaming
- VoIP architectures and signaling
- SIP Clients & Servers
- RTSP, HTTP Streaming, HLS
- Packetization, encryption & media transport
- Bandwidth estimation & adaptive streaming

Media Technologies

- WebRTC (Internals & APIs)

- GStreamer
- FFmpeg
- Media engines & media pipelines
- Video & Audio codecs: VP8, VP9, H.264, H.265, SVC, Opus, AAC

Systems & Networking

- Multithreading & concurrency
- TCP/IP, UDP, RTP/RTCP
- Network performance optimization

DevOps & Infrastructure

- Docker & containerized deployments
- Kubernetes (basic to intermediate)
- Linux-based environments

Professional Experience

Senior Software Engineer

Global Tech Solutions Ltd. – Remote (International Client)

January 2021 – 2026

- Designed and developed end-to-end **real-time communication systems** for video and audio streaming
- Implemented high-performance **VoIP services** using SIP-based architectures
- Built scalable streaming pipelines using **WebRTC, RTSP, and HLS** protocols
- Developed core RTC components from **client-side to server-side**
- Worked extensively with **C++**, leveraging STL, multithreading, and advanced networking concepts
- Integrated **GStreamer and FFmpeg** for media processing, encoding, and streaming
- Optimized video/audio delivery for low latency, reliability, and bandwidth efficiency
- Implemented media packetization, encryption, and secure transport mechanisms

- Collaborated with cross-functional teams working on **command & control systems** and emergency end-devices
 - Acted as an independent architect, researching and solving complex engineering challenges
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Software Engineer – Video & Streaming Systems

Advanced Communications Technologies (ACT) – Amman, Jordan

July 2018 – December 2020

- Developed real-time **video and audio streaming modules** for multi-platform environments
 - Worked with **VoIP stacks**, SIP signaling, and media transport protocols
 - Implemented HTTP streaming and **HLS pipelines**
 - Supported multiple codecs including **VP8/VP9, H.264, Opus, and AAC**
 - Improved system performance through bandwidth estimation and network optimization
 - Participated in system design, code reviews, and technical documentation
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Key Projects

Real-Time Emergency Communication Platform

- Developed a scalable RTC platform supporting **live video, audio, and real-time data streaming**
- Implemented **WebRTC-based video communication** with adaptive bitrate control
- Integrated SIP signaling with streaming backends for reliable VoIP communication
- Used **FFmpeg and GStreamer** for media processing and transcoding
- Ensured system stability under high load using multithreaded and distributed architectures

Video Streaming Infrastructure

- Designed HTTP streaming and HLS pipelines for real-time and near real-time video delivery
 - Implemented codec support for **VP8/VP9, H.264/H.265, Opus, and AAC**
 - Optimized network usage and latency through bandwidth estimation techniques
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Education

Bachelor's Degree in Computer Science

University of Jordan – Amman, Jordan

2014 – 2018

Additional Information

- Experience working with **international clients** and distributed teams
- Strong problem-solving and analytical skills
- Comfortable working on **mission-critical, life-saving platforms**
- Available for full-time remote roles