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EXPERIENCE

<i>OpenAI</i> - American artificial intelligence (AI) organization.	2024 - *
<ul style="list-style-type: none">• Wrote WebRTC Server + Azure Infrastructure• Added WebRTC/SIP/Microcontroller support to Realtime API• Shipped 1800-ChatGPT• Migrated ChatGPT Voice from LiveKit to Pion• Implemented browser take-over (via WebRTC) in ChatGPT Operator	
<i>LiveKit</i> - Open Source WebRTC stack for building scalable, real-time audio and video experiences.	2024 - 2024
<ul style="list-style-type: none">• Designed and Implemented SIP support• Responsible for customer success/integration challenges• Performed outbound sales/cold calling	
<i>Twitch</i> - Interactive livestreaming service for gaming, entertainment, sports, music, and more.	2021 - 2024
<ul style="list-style-type: none">• Built 'Stream Together', co-streaming for broadcasters on Pion• Added WebRTC to Open Broadcaster Software	
<i>Apple</i> - Technology company that specializes in electronics, software, and online services.	2020 - 2021
<ul style="list-style-type: none">• Built FaceTime links, service that allows users to join FaceTime from a web browser• Designed and implemented media Quality of Service subsystems	
<i>Amazon</i> - American electronic commerce and cloud computing company	2018 - 2020
<ul style="list-style-type: none">• Designed and implemented Pure C WebRTC implementation for embedded devices• Worked on Chromium on Android/Linux/Windows, the foundation for Amazon Silk• Added support for Mediatek WebRTC H264 encoding on Android	
<i>Infiniscene</i> - broadcast studio built on the web	2016 - 2018
<ul style="list-style-type: none">• Wrote cloud compositing engine, ingestion of many sources and output to many destinations• Created ingestion engine, handles multiple popular transports RTP/UDT/SRT/RTMP/WebRTC/FTL• Deep WebRTC usage, worked with ICE/DTLS/Custom signaling in GStreamer• Created H264 analyzer to educate users, parsing byte-stream to warn about unsupported features	
<i>System Associates</i> - Developer of full stack software and hardware for major hotels	2011 - 2016
<ul style="list-style-type: none">• Wrote Dialplan and Applications in C for Asterisk• Developed a web interface so non-technical users could manage system	

PROJECTS

Pion WebRTC - *Pure Golang implementation of WebRTC.*
Creator, Implemented SRTP, SCTP, STUN and ICE. No 3rd party library usage.

WebRTC for the Curious - *A book on how WebRTC really works.*
Author, learn about the protocols of WebRTC. A book that goes beyond the APIs.

Open Broadcaster Software - *Open cross-platform screencasting and streaming app*
Added WebRTC outputs and sources

amazon-kinesis-video-streams-webrtc-sdk-c - *Embedded WebRTC Implementation*
Designed and worked with team of 5 to implement. Used in IoT/Robotics.

Broadcast Box - *Self hosted streaming with WebRTC*
Creator. Used to develop OBS WHIP Output

GStreamer - *Free pipeline-based multimedia framework.*
Added **AV1** support. Fixed bugs, added flvmux feature