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Senior C++ Developer (Server)

at Network Optix ([View all jobs](#))

Burbank, California, United States

Network Optix (Nx) is a powerhouse in video software development, driven by a mission to empower the creation of intelligent video-based solutions and products capable of converting video into actionable data. Over a decade in the making, the Network Optix Enterprise Video Platform helps innovative organizations rapidly and affordably build world-class, custom-tailored, enterprise-scale video products and solutions.

We have locations in Walnut Creek, CA, Burbank, CA, and Oregon in the USA, and distributed teams around the globe (Taiwan, Australia, France, Spain, and Serbia to name a few). Nx is profitable and actively invests in expanding into new domains. We are growing our teams cross-functionally and across the globe.

We are looking for a Senior C++ software engineer who has a strong background in multi-threading and highly distributed applications. Our software runs on all kinds of hardware and operating systems. The main language we use is C++20 (we use cutting-edge technologies supported by the latest MSVC and clang compilers).

What you'll be doing:

- Develop and improve server side features
- Design and build functionalities for our server SDKs
- Implement network-distributed functionalities
- Improve the ability to work in public networks: extending the supported media broadcasting protocols, NAT traversal
- Extending VMS API to make our system open for third-party developers
- Work with audio/video codecs and containers using FFMPEG.
- Optimize the product to work on embedded devices (arm, linux embedded) to be able to run server on cameras or small arm boards (i.e. Raspberry pi)

What we're looking for:

- Strong academic background and good understanding of data structures and algorithms
- Good knowledge of C++14/STL, knowledge of the most popular C++17 features
- Demonstrable experience with efficient multi-threading techniques
- Expertise in writing portable code, adaptable to various hardware and operating systems
- Solid understanding of both low-level and high-level memory management
- Familiarity with network stack concepts, with experience in libraries similar to Boost.Asio

Nice to have:

- Good knowledge of C++17/20
- Knowledge of network protocols

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- Experience with different media-formats, codecs, containers (mkv, mpeg2-ts, h.264, webm, vp8, mjpeg etc), media delivery protocols (rtsp, http, hls), ffmpeg and ability to work with them programmatically

What we offer

- Competitive compensation
- Paid time off
- Flexible working hours
- Onsite work in our brand-new comfortable office
- Employer-sponsored health coverage
- Working with top industry experts in our international team

Hybrid or Remote

The position is ideally a hybrid role and the office is located in Burbank, CA. We will also consider candidates in the San Francisco area and the office is located in Walnut Creek, CA. We will also consider 100% remote.

Base pay range

\$150,000 — \$300,000 USD

Network Optix is an equal opportunity employer committed to diversity and inclusion in the workplace. We celebrate the diversity of our workforce, which includes people of all cultural, national, racial, gender identities, and those who have served in the military. We strive for an environment where creativity and collaborative growth thrive. If you have a disability or special need that requires accommodation, please let us know.

[CCPA disclosure notice](#)

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Are you legally authorized to work in the United States? *

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Will you now, or in the future, require sponsorship for employment visa status (e.g. H-1B visa status)? *

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Please provide links to your GitHub profile, portfolio, personal website, or any other online resources where we can explore your projects.

LinkedIn Profile

Voluntary Self-Identification

For government reporting purposes, we ask candidates to respond to the below self-identification survey. Completion of the form is entirely voluntary. Whatever your decision, it will not be considered in the hiring process or thereafter. Any information that you do provide will be recorded and maintained in a confidential file.

As set forth in Network Optix's Equal Employment Opportunity policy, we do not discriminate on the basis of any protected group status under any applicable law.

Gender

Are you Hispanic/Latino?

Race & Ethnicity Definitions

If you believe you belong to any of the categories of protected veterans listed below, please indicate by making the appropriate selection. As a government contractor subject to the Vietnam Era Veterans Readjustment Assistance Act (VEVRAA), we request this information in order to measure the effectiveness of the outreach and positive recruitment efforts we undertake pursuant to VEVRAA. Classification of protected categories is as follows:

A "disabled veteran" is one of the following: a veteran of the U.S. military, ground, naval or air service who is entitled to compensation (or who but for the receipt of military retired pay

would be entitled to compensation) under laws administered by the Secretary of Veterans Affairs; or a person who was discharged or released from active duty because of a service-connected disability.

A "recently separated veteran" means any veteran during the three-year period beginning on the date of such veteran's discharge or release from active duty in the U.S. military, ground, naval, or air service.

An "active duty wartime or campaign badge veteran" means a veteran who served on active duty in the U.S. military, ground, naval or air service during a war, or in a campaign or expedition for which a campaign badge has been authorized under the laws administered by the Department of Defense.

An "Armed forces service medal veteran" means a veteran who, while serving on active duty in the U.S. military, ground, naval or air service, participated in a United States military operation for which an Armed Forces service medal was awarded pursuant to Executive Order 12985.

Veteran Status

Voluntary Self-Identification of Disability

Form CC-305
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OMB Control Number 1250-0005
Expires 04/30/2026

Why are you being asked to complete this form?

We are a federal contractor or subcontractor. The law requires us to provide equal employment opportunity to qualified people with disabilities. We have a goal of having at least 7% of our workers as people with disabilities. The law says we must measure our progress towards this goal. To do this, we must ask applicants and employees if they have a disability or have ever had one. People can become disabled, so we need to ask this question at least every five years.

Completing this form is voluntary, and we hope that you will choose to do so. Your answer is confidential. No one who makes hiring decisions will see it. Your decision to complete the form and your answer will not harm you in any way. If you want to learn more about the law or this form, visit the U.S. Department of Labor's Office of Federal Contract Compliance Programs (OFCCP) website at www.dol.gov/ofccp.

How do you know if you have a disability?

A disability is a condition that substantially limits one or more of your "major life activities." If you have or have ever had such a condition, you are a person with a disability. **Disabilities include, but are not limited to:**

- Alcohol or other substance use disorder (not currently using drugs illegally)
- Autoimmune disorder, for example, lupus, fibromyalgia, rheumatoid arthritis, HIV/AIDS
- Blind or low vision
- Cancer (past or present)
- Cardiovascular or heart disease
- Celiac disease
- Cerebral palsy
- Deaf or serious difficulty hearing
- Diabetes
- Disfigurement, for example, disfigurement caused by burns, wounds, accidents, or congenital disorders
- Epilepsy or other seizure disorder
- Gastrointestinal disorders, for example, Crohn's Disease, irritable bowel syndrome
- Intellectual or developmental disability
- Mental health conditions, for example, depression, bipolar disorder, anxiety disorder, schizophrenia, PTSD

- Missing limbs or partially missing limbs
- Mobility impairment, benefiting from the use of a wheelchair, scooter, walker, leg brace(s) and/or other supports
- Nervous system condition, for example, migraine headaches, Parkinson's disease, multiple sclerosis (MS)
- Neurodivergence, for example, attention-deficit/hyperactivity disorder (ADHD), autism spectrum disorder, dyslexia, dyspraxia, other learning disabilities
- Partial or complete paralysis (any cause)
- Pulmonary or respiratory conditions, for example, tuberculosis, asthma, emphysema
- Short stature (dwarfism)
- Traumatic brain injury

Disability Status

PUBLIC BURDEN STATEMENT: According to the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless such collection displays a valid OMB control number. This survey should take about 5 minutes to complete.

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