



C++ Machine Learning Engineer

Illuminex AI

Remote, Permanent, Full time

Illuminex AI was founded in 2021 and has developed an [Operational AI Inspection Platform](#) to automate industrial inspection tasks. We are seeking a **C++ Machine Learning Engineer** with expertise in deploying machine learning models on edge devices. The ideal candidate will have a strong foundation in C++ and a demonstrated history of successful ML deployments. The selected candidate will join a high-performance team dedicated to pioneering advancements in airfield inspection products, building on our [recent successful demonstration](#) at the Toronto Pearson Airport.

As part of a fast-growing startup team, you will be responsible for contributing to product development from conception to completion. This includes technical development, preliminary testing, project management, technical client interactions, and customer-facing demonstration developments. This position is remote, where the team interacts virtually, with occasional travel to conferences and customer facilities throughout North America.

Required Qualifications:

- 3-5 years of experience with C++ (with at least 2 years of this experience being in an industrial setting)
 - Ideally with C++ 2017
- Hands-on experience deploying ML models on edge devices
 - Ideally with Nvidia Jetson or Nvidia Isaac ROS
- Familiarity with ARM programming
- Familiarity with multi-threaded programming
- Experience translating high-level problem description into appropriate technical solutions
- Strong problem-solving skills and ability to work independently as well as in a team
- Proficient understanding of software engineering practices and fundamentals (data structures, algorithms, software architecture and testing, object-oriented programming)

Nice-to-Have Skills:

- Proficiency with Nvidia Deepstream C++ SDK
- Proficiency with Nvidia Isaac ROS or ROS
- Experience with application development
- Familiarity with application GUI development, ideally with GTK

Your Responsibilities:

- Develop and deploy ML systems on edge devices, primarily Nvidia Jetson or Nvidia Isaac ROS devices
- Work closely with ML engineers to seamlessly integrate and deploy models in real-world scenarios
- Ensure the performance, quality, and responsiveness of the deployed applications
- Troubleshoot, diagnose, and address software defects
- Project planning, tracking, and reporting using JIRA software and Scrum
- Technical writing including white papers, manuscripts, and intellectual property
- Stay updated with the latest industry trends and technologies to ensure our systems remain cutting-edge

Education:

- Undergraduate or Graduate degree in computer science or engineering

You'll Love This Job If:

- You enjoy working in cross-functional teams and are eager to participate and share your ideas
- Writing efficient, clean code brings you a deep sense of peace
- You are passionate about something – tell us about it!
- You're psyched to talk about the latest updates from DeepMind and OpenAI
- You have the ability and desire to occasionally travel locally, nationally, and internationally
- At some point in your life, you have owned a Rubiks Cube
- You're ready to take advantage of the freedom we provide you to explore and find ways to push boundaries

Benefits:

- Compensation in the form of salary and stock options
- Opportunity to join a growing startup and make meaningful contributions
- Professional development opportunities for staying up to date with latest technologies and trends
- Opportunity to grow into a leadership role
- Generous vacation policy and flexible working hours

At Illuminex AI We Value:

- Own Your Work – we value action over words and will empower you to get things done
- Honesty & Transparency - sharing feedback, challenges, and ideas among team members
- Self-directed learning – we empower our team members to adapt new technologies and methodologies
- Teamwork – we promote and provide a collaborative and supportive work culture
- Be Kind – we are a close-knit team, despite being remote – win together, lose together, learn together
- Diversity – we welcome and value a wide range of backgrounds and experiences!

Successful applicants will be contacted for a telephone screening interview, following which you may be invited to a third-party coding interview. This coding interview will be held virtually and facilitated by a professional interviewer specializing in conducting coding interviews.

We are looking for a full-time, long-term employee and we'll hire as soon as we meet the right person. Target annual salary in this position is \$90,000 to \$105,000 depending on experience.

Illuminex AI is an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees. Our company strives to provide a supportive atmosphere for under-represented individuals in business and STEM fields, including a focus on work-life balance and employee mental health.

How To Apply:

Please send a cover letter and resume to jobs@illuminex.ai and use Job Application – Embedded Machine Learning Engineer in the subject line.

For more information, please see our website at illuminex.ai