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Software Engineer, C++

at Latitude AI (View all jobs)

Pittsburgh, PA, Palo Alto, CA, Detroit, MI, Remote

Latitude AI is an automated driving technology company developing a new hands-free, eyes-off driver assist system for next-generation Ford vehicles at scale. We're driven by the opportunity to make travel safer, less stressful, and more enjoyable for everyone.

When you join the Latitude team, you'll work alongside leading experts across machine learning, robotics, cloud platforms, mapping, sensors and compute systems, test operations, systems and safety engineering – *all dedicated to making a real, positive impact on the driving experience for millions of people.*

As a Ford Motor Company subsidiary, we operate independently to develop automated driving technology at the speed of a technology startup. Latitude is headquartered in Pittsburgh with engineering centers in Dearborn, Mich., and Palo Alto, Calif.

Meet the team:

Shipping the software that powers Latitude's automated driving products is a challenging job. Our C++ Software Engineers ensure that we are delivering fast, scalable code across all of our product development groups.

What you'll do:

- Develop software in C++ for automated driving products.
- Integrate components of our autonomy stack to meet requirements of complex, distributed real time systems.
- Design and develop the software development infrastructure for autonomous application development.
- Communicate design decisions, implementation improvements and project progress within your team and across the organization
- Develop and extend supporting tools and features of runtime middleware.
- Write automated tests to improve and validate performance.

What you'll need to succeed:

- Degree in Computer Engineering, Computer Science, Electrical Engineering, Robotics or a related field.
- Strong C++ Coding skills for real time applications.
- Strong problem solving skills and algorithm design experience.

Nice to have:

Privacy - Terms

- Machine learning experience or experience integrating machine learning components into runtime-constrained systems.
- Experience with production robots operating in an uncontrolled environment.
- Experience with autonomous vehicles.

What we offer you:

- Competitive compensation packages
- High-quality individual and family medical, dental, and vision insurance
- Health savings account with available employer match
- Employer-matched 401(k) retirement plan with immediate vesting
- Employer-paid group term life insurance and the option to elect voluntary life insurance
- Paid parental leave
- Paid medical leave
- Unlimited vacation
- 13 paid holidays
- Complimentary daily lunches, beverages, and snacks in our offices
- Pre-tax spending accounts for healthcare and dependent care expenses
- Pre-tax commuter benefits
- Monthly wellness stipend
- Adoption/Surrogacy support program
- Backup child and elder care program
- Professional development reimbursement
- Employee assistance program
- Discounted programs that include legal services, identity theft protection, pet insurance, and more
- Company and team bonding outlets: employee resource groups, quarterly team activity stipend, and wellness initiatives

Candidates for positions with Latitude AI must be legally authorized to work in the United States on a permanent basis. Verification of employment eligibility will be required at the time of hire. Visa sponsorship is available for this position.

We are an Equal Opportunity Employer committed to a culturally diverse workforce. All qualified applicants will receive consideration for employment without regard to race, religion, color, age, sex, national origin, sexual orientation, gender identity, disability status or protected veteran status.

At Latitude, the health and safety of our employees is our top priority. Vaccination has been proven to play a critical role in combatting COVID-19. As a result, Latitude has made the decision to require U.S. employees to be fully vaccinated against COVID-19, unless employees require an accommodation for religious or medical reasons. Being fully vaccinated means that an individual is at least two weeks past their final dose of an authorized COVID-19 vaccine regimen. As a condition of employment, newly hired employees will be required to provide proof of their COVID-19 vaccination or an approved medical or religious exemption.

Apply for this Job   * Required

Apply With LinkedIn

First Name *

Last Name *

Email *

Phone

Resume/CV   Attach, Dropbox, Google Drive, or enter manually
(File types: pdf, doc, docx, txt, rtf)

Cover Letter   Attach, Dropbox, Google Drive, or enter manually
(File types: pdf, doc, docx, txt, rtf)

We may collect and use personal data submitted in accordance with our Privacy Policy and other
privacy notices based on your location. *

Please select

Are you presently authorized under U.S. immigration laws to work in the United States? *

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Will you now, or in the future, require sponsorship to continue to be authorized under U.S.
immigration law to be employed by Latitude AI? *

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LinkedIn Profile

How did you hear about this opportunity? *

Please select

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 Latitude AI's Equal Employment Opportunity policy, we do not discriminate on
the basis of any protected group status under any applicable law.

Gender   Please select

Are you Hispanic/Latino? | Please select |

[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 | Please select |

Voluntary Self-Identification of Disability

Form CC-305   OMB Control Number 1250-0005
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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 | Please select |

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.

Submit Application

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