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Careers

Join the team redefining the world of compute

It takes a united team to change the face of machine learning at scale. At Groq, you will work with some of the world's most talented engineers and leaders to shape the future of compute. Be a part of our roster.

Current Openings

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Compiler Engineer

at Groq ([View all jobs](#))

Toronto, Canada (Remote)



At Groq, we radically simplify compute to accelerate workloads in artificial intelligence, machine learning, and high-performance computing.

Why join Groq? You want to be a part of something groundbreaking, where every day you can see the impact of your work on Groq's technology and customer solutions. As a Groqstar, you will join a talent-rich group of problem solvers and doers; in a culture that focuses on team, growth, innovation, and creativity. Simply put, at Groq, we defy gravity.

We are changing as the world changes and have evolved into a Geo-agnostic company meaning you work where you are. Exceptional candidates will thrive in asynchronous partnerships and remote collaboration methods. Some roles may require being located near our primary sites, which will be indicated in the job description. We offer a competitive salary & benefits package, numerous quality-of-life perks such as a home office stipend, flexible learning allowance, optional professional coaching and a schedule of fun team activities.

Are you ready to join our crew and help us reimagine machine learning and AI at scale?

If so, we look forward to connecting with you!

Compiler Engineer

About this role:

As compiler engineer, you will be responsible for developing compiler optimizations for our state-of-the-art spatial compiler - targeting Groq's revolutionary Tensor Streaming Processor. You will own specific components and compiler passes within Groq's TSP compiler, and be in charge of designing new optimizations, developing innovative scheduling techniques, and developing new front-end language dialects to support the rapidly evolving ML space. You will also be required to benchmark and monitor key performance metrics to ensure that your components and passes produce efficient mappings of neural network graphs to the Groq TSP. Experience with LLVM and MLIR preferred, and knowledge with functional programming languages an asset. Also, knowledge with ML frameworks such as TensorFlow and PyTorch, and portable graph models such as ONNX desired.

Responsibilities & opportunities in this role:

- Design, develop, and maintain key components and passes within Groq's TSP compiler
- Propose and expand Groq IR dialect to reflect the ever changing landscape of ML constructs and models.
- Benchmark and analyze output produced by optimizing compiler, and quantify quality-of-results when measured on the Groq TSP hardware.
- Assist in the publication of novel compilation techniques to Groq's TSP at top-tier ML, Compiler, and Computer Architecture conferences.

Ideal candidates have/are:

- Strong initiative and self starter
- Keen attention to detail
- Strong written and oral communication; ability to write clear and concise technical documentation
- Team first attitude

Qualifications for this role:

- A degree in computer science, computer engineering, or related field
- 1+ year of experience with C/C++ or Python programming
- Knowledge of functional programming an asset
- Experience with distributed systems or spatial compute such as FPGAs
- Experience with ML frameworks such as TensorFlow or PyTorch desired
- Knowledge of ML IR representations such as ONNX and Deep Learning

Attributes of a Groqstar:

- Humility - Egos are checked at the door
- Collaborative and Team Savvy - We make up the smartest person in the room together
- Growth and Giver Mindset - Learn it all versus know it all, We share knowledge generously
- Curious and Innovative - Take a creative approach to projects, problems, and design

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- Passion, grit, and boldness - no limit thinking; fueling informed risk taking



Our goal is to hire and promote an exceptional workforce as diverse as the global populations we serve. Groq is an equal opportunity employer committed to diversity, inclusion, and belonging in all aspects of our organization. We value and celebrate diversity in thought, beliefs, talent, expression, and backgrounds. We know that our individual differences make us better. Come join us! #LI-Remote

Compensation:

The national pay range for our technical roles are \$100,000-\$500,000. The national pay range for our non-technical roles are \$90,000-\$470,000. Individual compensation will be commensurate with the candidate's experience aligned with Groq's internal leveling guidelines and benchmarks.

Groq is an Equal Opportunity Employer that is committed to inclusion and diversity. Qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, gender, sexual orientation, gender identity, disability or protected veteran status. We also take affirmative action to offer employment opportunities to minorities, women, individuals with disabilities, and protected veterans.

Groq is committed to working with qualified individuals with physical or mental disabilities. Applicants who would like to contact us regarding the accessibility of our website or who need special assistance or a reasonable accommodation for any part of the application or hiring process may contact us at: hr@groq.com. This contact information is for accommodation requests only. Evaluation of requests for reasonable accommodations will be determined on a case-by-case basis.

Apply for this Job

* Required

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(File types: pdf, doc, docx, txt, rtf)

Cover Letter [Attach, Dropbox, or enter manually](#)
(File types: pdf, doc, docx, txt, rtf)

LinkedIn Profile

Website

Do you want to know what Groq is up to? *

We're excited to get to know you! Here's your chance to get to know Groq. **Select "Yes" if you would like to receive company updates from us.**
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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 used for internal reporting purposes only. © 2023 Groq, Inc. All rights reserved

will be recorded and maintained in a confidential file.



As set forth in Groq'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
- 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)

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- 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

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