Software Developer - Hardware Tooling

⌖ Toronto, ON, Canada   ⏱ Full Time   ⛏ Software and Algorithms   🎓 Mid Level

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About Xanadu

Xanadu's mission is to build quantum computers that are useful and available to people everywhere.

At Xanadu, we are learners, innovators, researchers, collaborators and problem solvers. We are creating something that has never been built before. What we are doing is extremely hard, the classic moon shot. Few people in their life will be able to be a part of something like this, where if we are successful, the technologies we develop will solve some of the world's most challenging problems and literally change the world. And that is something to be excited about!

Your Role and Responsibilities

As a Software Developer, you will contribute to the platform and the infrastructure for our software and hardware products. You will work on a team to support Hardware R&D, Hardware Operations, Cloud Infrastructure, and Developer Enablement. The Tools Team's primary goal is to help accelerate the Hardware Team's timelines to build the first commercially viable quantum computer. As a result, you will completely reshape the nature of computation as we know it. You will:

- Design, build, deploy, and maintain tooling, data management, and communication software products, including their supporting infrastructure, that enable various parts of our hardware development and operation processes.
- Design APIs for consumption by internal and external services.
- Work closely with Hardware Engineers to design and implement solutions to enable quantum hardware operation.
- Ensure high-quality production code by maintaining automated test coverage and a dynamic code review process.
- Perform DevOps tasks, such as maintaining our CI/CD pipeline using GitHub Actions.

At Xanadu, we primarily work with Python, Rust, C++, Postgres, Redis, Docker, CI pipelines, and multiple cloud platforms. Proficiency in at least a subset of these technologies is essential.

Basic qualifications and experience

- BSc in Computer Science, Engineering, Physics, Math, or a related field.
- 4+ years of software development experience.
- Strong knowledge of modern development languages like Python, Rust, or Go.
- Experience with any major cloud providers: AWS, GCP or Azure.
- Product-minded approach to software development.
- In-depth knowledge of different software development methods such as Test Driven Development, Unit Testing, Agile, etc
- Self-driven to deliver high-quality solutions to your stakeholders.
- Comfortable working in a fast-paced environment.
- Strong communication and collaboration skills.

Preferred qualifications and experience

- Experience with AWS.
- Experience with Rust.
- Experience with ETL pipelines.
- Experience with multiple data storage technologies.
- Experience with front-end web development, extra points for WebGL experience.
- DevOps experience

Values

Our values are important. They are fundamental and lay the foundation for the culture at Xanadu.

At Xanadu, we are committed to building an inclusive, safe, and equitable culture and fostering an environment where our employees feel included, valued, and heard. We are committed to meeting the needs of all individuals and support a barrier-free workplace. Should you require accommodations at any point during the recruitment process please contact Human Resources at hr@xanadu.ai.

Apply for this position

REQUIRED *

First Name *

Last Name *

Email Address *

Phone *

Address

Address

City

State/Province

Postal

Resume *

Attach resume or Paste resume

Are you authorized to work in Canada?* (i.e. citizenship, permanent resident or a valid work permit) *

-- No answer --

If you are working in Canada on the basis of a work permit, what is the expiry date of your current work permit? (select date)

Have you been convicted of a criminal offense for which a pardon or record suspension has not been granted?* *

-- No answer --

How did you hear about us? *

-- No answer --

Human Check *

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reCAPTCHA
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SUBMIT APPLICATION