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Senior Software Engineer, Presto Execution Engine

[APPLY NOW](#)[Apply Later](#)**Job ID:** R-03482**Location:** Emeryville, California, United States**Business:** Pixar Animation Studios**Date posted:** Aug. 04, 2023

Job Summary:

Our Software R&D team is responsible for developing Pixar's in-house and open-source software. Working with both artists and engineers, we build innovative filmmaking tools that enable our film production and continuously extend artistic reach. One of our flagship tools is Presto, Pixar's Academy Award-winning in-house digital content creation application used on all of our films. We are looking for a Software Engineer to join the team that develops and maintains the execution engine and in-memory scene representation at the heart of Presto. You will collaborate with us in a multi-functional team to extend the feature set and improve the performance of this important software stack, as well as pave the way for its open-source debut in OpenUSD. Are you enthusiastic about software architecture and API design? Do you love writing high-performance and high-quality C++ code, and are you interested in putting your multithreading and parallel programming skills to use? If so, we would love to have you on the team!

RESPONSIBILITIES:

- Contribute to world-class 3D graphics software applications and frameworks that enable and support Pixar's film production
- Profile performance-critical code paths and creatively optimize algorithms to enhance interactive user experiences
- Take ownership of challenges that arise from evolving and modifying software that is heavily exercised in an active production environment
- Collaborate with a team of engineers, technical artists, QA, build support and project management
- Work closely with other teams to plan and develop user-facing features that help our artists push boundaries, as well as libraries and APIs that enhance the capabilities of our software
- Ensure forward progress even on large projects by independently researching the problem-space and closely collaborating with your team and other stakeholders

QUALIFICATIONS:

- Start with a strong understanding of C++ that you continually expand upon. Have exposure to modern C++ and experience with the STL
- Take pride and passion in crafting high-quality code with attention to detail, readability and performance in mind



- Find fulfillment in designing and implementing APIs and frameworks that form the foundation of many user-facing workflows across many film production departments
- Thrive in a collaborative environment where you exchange knowledge with accomplished technicians, and draw inspiration from amazing artists
- Have the ability to listen well and communicate clearly and succinctly
- Prior exposure to performance profiling tools and workflows, parallel programming and multithreading, as well as programming on GNU/Linux
- Four or more years of professional experience, and degree in Computer Science (or equivalent education)

The hiring range for this position in Emeryville is \$158,185.00 to \$204,710.00 per year. The base pay actually offered will take into account internal equity and also may vary depending on the candidate's geographic region, job-related knowledge, skills, and experience among other factors.

About Pixar Animation Studios:

Pixar Animation Studios, a wholly owned subsidiary of The Walt Disney Company, is an Academy Award®-winning film studio with world-renowned technical, creative and production capabilities in the art of computer animation. The Northern California studio has created some of the most successful and beloved animated films of all time, including "Toy Story," "Monsters, Inc.," "Cars," "The Incredibles," "Ratatouille," "WALL•E," "Up," "Toy Story 3," "Brave," "Inside Out," and "Coco." Its movies have won 35 Academy Awards® and have grossed more than \$13 billion at the worldwide box office to date.

About The Walt Disney Company:

The Walt Disney Company, together with its subsidiaries and affiliates, is a leading diversified international family entertainment and media enterprise with the following business segments: Disney Entertainment, ESPN, Disney Parks, and Experiences and Products. From humble beginnings as a cartoon studio in the 1920s to its preeminent name in the entertainment industry today, Disney proudly continues its legacy of creating world-class stories and experiences for every member of the family. Disney's stories, characters and experiences reach consumers and guests from every corner of the globe. With operations in more than 40 countries, our employees and cast members work together to create entertainment experiences that are both universally and locally cherished.

This position is with Pixar Inc., which is part of a business segment we call Pixar Animation Studios.

Pixar Inc. is an equal opportunity employer. Applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, sexual orientation, gender identity, disability or protected veteran status. Disney fosters a business culture where ideas and decisions from all people help us grow, innovate, create the best stories and be relevant in a rapidly changing world.

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