

## Senior Software Engineer

A 3,000-pound log rips towards a screaming saw at 600 feet per minute. Our optimizer customer is counting on us to provide over 50,000 distinct geometric profile points for a complete 3D picture of this log so that the blades can be moved into position. Less than 300 milliseconds before the sawdust starts to fly and less than two seconds before we do it again with the next log, and then the next, for upwards of twelve hours a day. Can your code keep up?

Welcome to the wild world of sawmill optimization.

Are you a wiz with gnarly requirements who chews up bugs and spits out stunningly documented code? We're on the hunt for a software cowboy with a firmware flare to help our seasoned team wrangle that next batch of gold-standard sawmill scanning products to market. You'll need the gumption to pull it off: a knack for self-direction and an aptitude for customer support go a long way in these parts. You'll also need to work well with others; there are no lone rangers in this outfit. It's a tall order, but you'll be richly rewarded if you can make the grade.

This is an opportunity to make a difference. Sawmills throughout the world will depend on the technology you develop to get the most from our forests.

### What it takes

#### Fit:

- You take ownership of your day-to-day tasks and actively shape your role within the framework of your team and its vision of success. You don't need a to-do list handed to you to get things done.
- You contribute across multiple domains and technologies. You lean strongly towards being a generalist over being a specialist.
- You effectively structure and make progress against complex (and sometimes incompletely defined) software engineering problems.
- You thrive in small team settings and wear many hats with gusto.
- You are a strong communicator who listens carefully and expresses your thoughts clearly and concisely
- You can't wait to learn about the machinery, processes, and people inside a modern sawmill. You aren't afraid to get your boots dirty.

## Skills:

- You design, evolve, and document clean, consistent, and performant APIs in C++ or C#.
- You develop and test TCP/IP networking software that is fast and reliable.
- You build an intimate understanding of how our software interacts and integrates with customers' optimization software and use it to improve usability and performance.
- You work with the JoeScan leadership team on developing the technical requirements and software/hardware architecture for new products.
- Effectively lead engineering team progress.
- You work with customers' engineering teams to provide training and support and implement plans to improve our internal training and support capabilities.

You likely have broad experience. Any of the following skills earn bonus points:

- Porting Linux to custom hardware
- Developing custom Linux drivers
- Providing technical education
- Developing and verifying Verilog / SOC / FPGA design
- Applying machine vision, machine learning, and computational geometry to real-world problems
- Performing mathematical modeling and data analysis using tools like NumPy, Julia, or Matlab/Octave
- Exercising your inner maker by designing and building custom electro-mechanical product demonstrations and hardware test stations

Requirements:

- 6+ years of experience developing complex, performant software applications
- Strong track record of achievement, evidenced by demonstrated contribution to past projects
- Experience in leadership and mentorship, guiding software architecture, and ensuring best practices within the team.

## How to apply

Please send resumes to [jobs@joescan.com](mailto:jobs@joescan.com). In the body of your email, briefly tell us about your favorite engineering project and why it was your favorite.

To be considered and ensure you read this all the way to the end, reference the name of your favorite science fiction character in the subject line of your application email.

**Base Salary Range:** \$130K to \$180K

**Benefits:**

100% Paid Single/Family Medical Insurance  
100% Paid Single/Family Dental Insurance  
100% Paid \$50,000 Life Insurance Policy  
100% Paid Short Term & Long Term Disability Insurance  
100% Paid WA PFML  
100% Paid WA Workmans Comp Insurance  
401k Safe Harbor & generous Profit Share  
Generous paid vacation and flex time policies

*JoeScan provides equal employment opportunities to all employees and applicants for employment and prohibits discrimination and harassment of any type without regard to race, color, religion, age, sex, national origin, disability status, genetics, protected veteran status, sexual orientation, gender identity or expression, or any other characteristic protected by federal, state or local laws. This policy applies to all terms and conditions of employment, including recruiting, hiring, placement, promotion, termination, layoff, recall, transfer, leaves of absence, compensation, and training.*