



Senior C++ / DSP Software Engineer

Luminary is looking for a Senior C++ / DSP Software Engineer, responsible for building breakthrough products based on a new approach to technology.

We seek a Senior Software Engineer with a hands-on attitude, who will work closely with a team of talented software engineers and testers. You will ensure that good design practices are followed and development cycles are resourced adequately.

The position requires experience working in a multi-disciplinary environment and in planning / resourcing software projects. A record of successfully completing commercial software projects is essential. The role also demands some appreciation of the problems of integration with embedded hardware.

Our software team undertakes an ever-evolving range of key activities, from cross-platform front-end design and mobile application development to DSP algorithm design and embedded Linux implementation. A familiarity with modern music technology is a plus. If you have the energy and determination to advance your career in a fast-growing, fun environment, this is a unique opportunity.

Please provide a modern C++ code sample of your work or link to any personal or open source projects you have contributed to.

What you'll do:

- Implement & maintain new & existing audio effects and synthesis algorithms
- Ensure our range of plugins run optimally and in a real-time safe manner.

What you'll need:

- Excellent communication skills, written and verbal
- Extensive knowledge of digital signal processing theory
- Demonstrated track record of audio processing or synthesis DSP algorithms for music
- A solid foundation in the requirements of multi-threaded real-time software development
- Previous experience building Virtual Instruments or iOS real-time audio applications
- Up-to-date knowledge of best software design and development practice as it relates to user-facing desktop and mobile software products
- A BSc/MSc or equivalent experience coding commercial software (C++ / Java / Objective-C)
- Development experience across multiple OS platforms, preferably using cross-platform C++ SDKs such as JUCE
- A passion for audio, design and technology - hands-on experience of music technology use cases is a plus
- A passion for clean, efficient code
- A passion for learning

Bonus Points:

- Experience with embedded software
- Familiarity with music tech state-of-the-art
- Proficiency in C++17
- Working knowledge of Web technologies such as Javascript, Electron.js, MongoDB
- Experience with Jenkins / Azure DevOps, or other continuous integration systems
- Experience with GIT
- Experience with Ruby / Rake



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Who we are:

Luminary's mission is to enable more people to experience the transformative power of life-long music making. We do this by making the whole process of music learning and practice more inspiring and effective. We are a hardware, software, and content music technology company based in Dalston, London. Our focus on pioneering new and innovative technological solutions to the challenges that face music learners and makers has meant that our products are used by composers, producers, artists, engineers, and hobbyists worldwide.

Luminary ROLI Ltd offers:

- The opportunity to work with the leading, progressive minds within technology, hardware, and music creation to directly impact the way we create and interact with music
- A competitive salary according to your level of experience
- A range of meaningful benefits including:
 - Following probation, a competitive health care cash plan and a generous bike-to-work scheme
 - A competitive company pension scheme following 3 months of full time work
 - 23 days holiday with 2 additional social impact days and the standard 8 statutory holiday days
 - 20 hours per year dedicated to volunteering within the local community
 - Flexible working hours
 - 'Lending Library' of all ROLI products
 - Team member discounts on ROLI products
 - Apple laptop and relevant software licenses for your role
 - Generous Parental Leave policy
 - *Currently on hold due to COVID-19 remote working:*
 - *A great working environment, featuring daily complimentary homemade plant-based lunches and limitless homemade GOLDnola*
 - *Wellness programme which includes regularly offered massages*
 - *Friends and family events*
 - *Company-wide Hack Days and workshops to expand your skills*
 - *In-house bike storage*
- The majority of our team members are currently working remotely due to COVID-19. We will discuss the latest updates with regards to remote working as part of our interview process.

Luminary ROLI Ltd wholeheartedly believes that difference stimulates a healthy and productive environment, as well as positively impacts the products we create. We actively encourage diversity of background and perspective, and as an equal opportunities employer, we oppose all forms of unlawful or unfair discrimination in all of our employment related processes and matters.