

JOB TITLE: **Software Developer, Python Library Development**

STATUS: **Regular / Full-Time / Exempt**

LOCATION: **Cambridge, UK**

About this role:

At Swim, we're on a mission to reinvent the modern application stack for the streaming era. Come join our diverse team of fearless creators working together to design the world's most challenging streaming applications.

The **Software Developer, Python Library Development** at SWIM.AI will be responsible for implementing a Python version of our Swim Client. You will be part of a skilled engineering team working on a core feature of the Swim platform. In this role, you will be expected to be innovative and collaborative by taking high level ideas and concepts and quickly develop them into working models. The position will have a strong focus on python libraries and API design.

Swim is a self-contained, distributed application stack in an embeddable software library. Our applications communicate using their own protocol, called WARP, which multiplexes bidirectional streams between large numbers of URIs over a single WebSocket connection.

Swim is comprised of two high level components:

1. Swim Java Server: A self-contained, distributed application server for stateful, streaming applications
2. Swim Client: A minimal WARP streaming API client

A developer focused introduction to Swim can be found at <https://swim.dev>. The swim platform is open source, under the Apache license, and the source can be found by following the link.

Key Qualifications:

- Deep understanding of systems programming concepts: Networking, memory management, multi-threading and non blocking IO
- Extremely proficient in Python
- Experience in developing Python libraries and API design
- Proficiency with building and debugging complex system software
- Background in high-performance, distributed computing or real-time solutions
- Developing server-side applications
- Development of large, highly complex systems-level code base
- Building and development of infrastructure software
- Excellent verbal and written skills
- Able to work collaboratively as part of a team

Desirable:

- Knowledge of Java and the JVM
- Knowledge of Javascript/Node.js
- Experience of specifying and implementing communication protocols

- Familiar with a modern source control system, preferably Git
- Experience of structured software development (e.g. issue tracking, continuous integration, etc.)

Education/Experience

- College or University degree in Computer Science or equivalent experience
- 4 years of software development experience 5+years experience as a software developer

SWIM is an Equal Opportunity / Affirmative Action / E-Verify employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability or protected veteran status.