Computer Science Internship

Danuser Lab
Lyda Hill Department of Bioinformatics
Dallas, TX

Work Type: Hybrid work with possibility for partial remote, depending on candidate location

Why UT Southwestern?
As an intern, you will be part of the dynamic Danuser Lab in the Lyda Hill Department of Bioinformatics. We collaborate with microscopy developers, chemists, developmental biologists, and clinicians to take an ever-closer look at what cancer cells do. We develop computer vision software packages to analyze cell behavior in the mouse, in the zebrafish, and in human cancer tissue. We are leaders of two NIH research centers with national outreach on (cancer) cell imaging. Join us in our venture to reshape the boundaries of scientific discovery through technology.

Job Summary
As a Computer Science Intern, you will contribute to the advancement and enhancement of software tools used in our scientific research. This role offers a platform to refine technical skills, nurture problem-solving abilities, and gain insights into real-world software development practices. You will be mentored by an experienced software engineer in the lab. While we provide relevant training, we seek proactive interns with a keen problem-solving aptitude and a thirst for learning. In our open-source environment, you will contribute code, documentation, or bug fixes to the projects, making this experience valuable for your future careers.

Requirements
- Undergraduate student or master student in Computer Science or related field.
- Experience with design and development of graphical user interfaces.
- Experience with MATLAB and/or Python programming.

Job Duties
- Design and optimize graphical user interfaces that allow researchers to interact with the software effectively. This involves improving usability, layout, and visual design.
- Collaborate with scientists to understand their requirements for software improvements.
- Use DevOps tools to collaborate and disseminate your software products.
- Acquire hands-on experience with the Linux operating environment.
- Analyze, curate, and debug codes written by other programmers and scientists.
- Engage in lab and group meetings, showcasing your progress and learning.

Duration and Schedule
This is a 12-month part-time internship (10 - 20 hours/week) beginning on October 1st, 2023, with flexible scheduling options to accommodate your commitments.

Compensation
Competitive salary rate: $20/hour.

How to Apply
Interested candidates please submit resumes to Jenny Zou (qiongjing.zou@utsouthwestern.edu). Cover letters or transcripts are optional but highly encouraged.