

# Software Engineering Intern

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We are looking for a summer intern that can help develop and maintain the **cBioPortal** as a full stack developer. The cBioPortal backend is built using Java, Spring MVC, and MySQL, and the frontend is built in Typescript, React, and MobX.

The cBioPortal for Cancer Genomics is an open-source software platform that enables interactive, exploratory analysis of large-scale cancer genomics data sets with a biologist-friendly interface. It integrates genomic and clinical data and provides a suite of visualization and analysis options. Currently, the cBioPortal has at least 55 local installations and sees more than 30,000 unique visitors a month. We maintain a public cBioPortal instance at: <https://www.cbioportal.org/>, and all code is managed via GitHub at: <https://github.com/cbioportal>.

## Responsibilities

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- Add new features to the cBioPortal
- Expand the capability of existing features
- Optimize the performance of existing features
- Investigate and fix bugs
- Coordinate efforts with other members of the cBioPortal team

## Requirements

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- Currently pursuing a degree in computer science or a related field
- Strong understanding of data structures
- Comfortable working with statically typed languages (Java, C#, C++, Go, TypeScript, etc.)
- Comfortable with basic git commands
- Available during normal (EDT timezone) working hours for most of the summer
- Able to work remotely

## Desirable Skills

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- Understand the basics of relational databases
- Experience with frontend technologies including
  - Javascript
  - TypeScript

- React
- Experience with backend technologies including
  - Java
  - JUnit
  - Spring MVC
  - MySQL
- Experience with \*nix operating systems
- Understanding of testing methodologies
- Familiar with Github workflows

## How to Apply

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Please email your resume and cover letter to `lucas@ds.dfci.harvard.edu`.

## About Dana-Farber

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Located in Boston, Dana-Farber Cancer Institute brings together world renowned clinicians, innovative researchers and dedicated professionals, allies in the common mission of conquering cancer, HIV/AIDS and related diseases. Combining extremely talented people with the best technologies in a genuinely positive environment, we provide compassionate and comprehensive care to patients of all ages; we conduct research that advances treatment; we educate tomorrow's physician/researchers; we reach out to underserved members of our community; and we work with amazing partners, including other Harvard Medical School-affiliated hospitals.

## Equal Employment Opportunity

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Dana-Farber Cancer Institute is an equal opportunity employer and affirms the right of every qualified applicant to receive consideration for employment without regard to race, color, religion, sex, gender identity or expression, national origin, sexual orientation, genetic information, disability, age, ancestry, military service, protected veteran status, or other groups as protected by law.