



**Software Architect / Senior Software Engineer, Bioinformatics**  
**Job code 608MD**

**Description**

Fate Therapeutics is currently seeking a talented, creative, and independent software architect or senior software engineer with a background in the creation and maintenance of server and cloud-based systems for the processing and storage of next generation sequencing (NGS) data. The candidate will join a crossfunctional group of computational and experimental biologists where they will design and build an internally facing cloud-based system for the automated processing, analysis, and databasing of NGS data, and hosting of an existing NGS data processing and visualization API. Candidate will work closely with IT systems architects and data integration engineers to ensure compatibility with broader company data and software practises. The candidate should be familiar with AWS Well-Architected Principles and AWS microservices as they pertain to the design, validation, and testing of a reliable and scalable service-oriented system, and should have experience designing and deploying such systems. Candidate should have broad coding experience including various scripting languages (e.g. Python), relational databases, version control systems, and container workflows. The ideal candidate will be highly collaborative and communicative in the gathering of system requirements, will be familiar with common NGS data processing pipelines, and will have experience working with non-developers. This is a full-time position reporting to a Principal Scientist in the Genomics group and is located at the Company's corporate headquarters in San Diego, California.

**Responsibilities**

- Use the AWS Well-Architected Principles to design, validate, and test a reliable and scalable service-oriented system.
- Communicate with Genomics and other non-developer teams to gather functional and non-functional system requirements.
- Dockerize, maintain, and evolve functionality of a preexisting data processing, analysis, and visualization API in collaboration with computational and genome biologists.
- Estimate project scope and expectations, and propose and establish software best practice frameworks with colleagues in IT.
- Define clear goals for all aspects of a project and ensure their proper execution.
- Deploy NGS data processing, analysis, and visualization tools in an AWS cloud environment in collaboration with data and systems architects.
- Maintain source/version controlled NGS software.

**Qualifications**

- BS degree and professional experience architecting/deploying operating solutions in AWS.
- Highly experienced with microservices architecture, distributed systems, ETL (Extract, Transform, Load), and event driven systems.
- 5+ years of experience working within software.
- 3+ years of development in Python and bash scripting.



- 3+ years designing scalable systems.
- AWS Solutions Architect Certification preferred.
- Experience with cloud-based relational/non-relational databases, PostgreSQL preferred.
- Experience with containers including dockerizing scientific workflows and running them on AWS Batch, Kubernetes, Lambda, and the like.
- Experience with full stack web development languages and frameworks, including React.js, Vue.js
- Experience with version control such as Github, Gitlab, and Bitbucket
- Experience working in the genomics/bioinformatics space preferred.

#### **Working Conditions and Physical Requirements**

- Onsite work at corporate headquarters in San Diego, CA
- Occasional evening and weekend work will be required

The preceding job description indicates the general nature and level of work performed by employees within this classification. Additional and incidental duties related to the primary duties may be required from time to time.

For consideration send cover letter and resume to: [careers@fatetherapeutics.com](mailto:careers@fatetherapeutics.com) and reference job code 608MD.

#### **About Fate Therapeutics, Inc.**

Fate Therapeutics is a clinical-stage biopharmaceutical company dedicated to the development of first-in-class cellular immunotherapies for patients with cancer. The Company has established a leadership position in the clinical development and manufacture of universal, off-the-shelf cell products using its proprietary induced pluripotent stem cell (iPSC) product platform. The Company's immuno-oncology pipeline includes off-the-shelf, iPSC-derived natural killer (NK) cell and T-cell product candidates, which are designed to synergize with well-established cancer therapies, including immune checkpoint inhibitors and monoclonal antibodies, and to target tumor-associated antigens using chimeric antigen receptors (CARs). Fate Therapeutics is headquartered in San Diego, CA. For more information, please visit [www.fatetherapeutics.com](http://www.fatetherapeutics.com).