

Senior Quantitative Developer — Quantitative Software Engineer (US)

Company: Two Sigma

Role family: QD | Seniority: Senior | Location: New York, NY (US)

Source (public posting): <https://careers.twosigma.com/careers/JobDetail/New-York-City-United-States-Quantitative-Software-Engineer/13045>

Cluster demand (ground-truth): {"QD": 0.6, "SWE": 0.25, "QR": 0.1, "DS": 0.05, "MLE": 0.0}

Reconstruction method: normalized sections + paraphrased responsibilities/qualifications for QA use.

ROLE SUMMARY

You will build the research and production software used by quantitative teams to create, validate, and deploy models. The work blends strong software engineering with domain-aware tooling for systematic investing.

KEY RESPONSIBILITIES

- Develop and scale research frameworks, libraries, and workflows used for model development.
- Partner directly with researchers to productionize models and improve iteration speed.
- Build robust backtesting and simulation capabilities; ensure correctness and reproducibility.
- Improve performance of compute-heavy pipelines; optimize data access and storage patterns.
- Maintain high engineering standards: testing, code review, observability, and documentation.

REQUIRED QUALIFICATIONS

- 5+ years building production software in Python/C++/Java or similar.
- Experience designing systems that handle large datasets and compute-heavy workflows.
- Strong problem-solving and ability to collaborate with research stakeholders.

PREFERRED QUALIFICATIONS

- Experience with backtesting, simulation, or market data workflows.
- Experience optimizing performance and latency-sensitive components.