

## **PART-TIME TIME POSITION:**

### **TECHNICAL INSTRUCTOR, DATA STRUCTURES & ALGORITHMS WORKFORCE DEVELOPMENT CORPORATION**

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#### **Agency Description**

The Department of Small Business Services (SBS) helps unlock economic potential and create economic security for all New Yorkers by connecting New Yorkers to good jobs, creating stronger businesses, and building a fairer economy in neighborhoods across the five boroughs.

#### **Workforce Development Corporation**

The WDC is an independent 501(c)(3) not-for-profit created by the City of New York (the “City”) specifically for assisting the City in developing and funding workforce and economic development initiatives. In furtherance of this purpose, the WDC and SBS work in a partnership consisting of, among other things, jointly developing, funding, and managing workforce and training initiatives, and resource sharing.

#### **Tech Talent Pipeline:**

The NYC Tech Talent Pipeline (TTP) is an Industry Partnership, launched in 2014 by Mayor Bill de Blasio to support the inclusive growth of the city’s tech sector. TTP helps prepare New Yorkers for 21st century jobs. TTP works with 385+ companies, 17 local colleges, and additional partners to define employer needs, develop training and education models to meet these needs, and scale solutions - delivering quality talent for the city’s businesses and quality jobs for New Yorkers.

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#### **Description:**

TTP is piloting and testing tech skills workshops to address common skill gaps amongst entry-level software engineering candidates from public universities and local bootcamps. The instructor will deliver data structures and algorithms-focused workshops to equip local candidates with strategies and skills to demonstrate their existing technical proficiency and improve their success in securing software engineering roles. The instructor will also offer suggested improvements, as needed, to the workshop curriculum.

#### **Responsibilities:**

- Deliver data structures and algorithms-focused workshops to help early-career software engineers develop their technical interview skills.
- Consistently deliver a series of workshops focused on common data structures such as arrays, objects, stacks, queues, linked lists, trees, graphs, heaps, etc.
- Consistently deliver a series of workshops focused on common algorithm patterns such as recursion, dynamic programming, sorting, sliding window, robot paths, etc.

- Develop a structured way to keep track of candidate participation, progress, and identifying improvements.

**Preferred Skills:**

- Experience teaching data structures and algorithms to solve problems.
- High comfort-level with Leetcode Medium and Leetcode Hard problems.
- Familiarity with at least one of the following languages - JavaScript, Python, Java, Ruby.
- Technical communication and public speaking skills.
- Experience with delivering computer science instruction for a live audience.
- Prior experience working as a software engineer or tech-adjacent role.
- Prior experience developing or teaching software engineering curriculum at a coding bootcamp or public university.

**Qualification:**

1. A baccalaureate degree from an accredited college or university and at least two years of full-time paid experience in an area related to the duties described above.

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**How to Apply:**

To apply for this position, please email your resume and a brief intro to [mmalhotra@sbs.nyc.gov](mailto:mmalhotra@sbs.nyc.gov) and [WDCFiscal@sbs.nyc.gov](mailto:WDCFiscal@sbs.nyc.gov) with the subject line: Technical Instructor - Data Structures and Algorithms

**Hours:** 5-7 hours per week

**Salary Range:** \$40-\$70 per hour (Commensurate with experience)

**NOTE:** Only those candidates under consideration will be contacted.

If you do not have access to email, mail your resume to:

NYC Department of Small Business Services

Human Resources Unit

1 Liberty Plaza

New York, New York 10006