**Office Title:** Associate Software Engineer  
**Civil Service Title:** Computer Specialist (Software)  
**Level:** 2  
**Salary Range:** $95,000 - $105,000  
**Division / Work Unit:** Information Technology Division/Digital Services  
**Number of Positions:** 1  
**Job ID:** 537091  
**Hours / Shift:** Monday – Friday (9am -5pm)  
**Position Status:** Full-Time / Permanent  
**Application Deadline:** Until Filled

**DISCLAIMER:** The NYC Department of City Planning does not offer Sponsorship, of any kind, for any type of employment opportunity.

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**THE AGENCY**

The Department of City Planning (DCP) plans for the strategic growth and development of the City through ground-up planning with communities, the development of land use policies and zoning regulations applicable citywide and sharing its perspectives on growth and community needs with sister agencies in collaboration with the Office of Management and Budget (OMB).

DCP’s six strategic objectives include: (a) catalyze long-term neighborhood improvement through integrated planning and targeted accompanying public investments; (b) encourage housing production, affordability, and quality; (c) promote economic development and job growth; (d) enhance resiliency and sustainability of neighborhoods; (e) ensure integrity, timeliness and responsiveness in land use reviews; and, (f) supply objective data and expertise to a broad range of planning functions and stakeholders.

Central to its mission, DCP supports the City Planning Commission in its annual review of approximately 450 land use applications. The Department also works closely with OMB in developing the Ten-Year Capital Strategy, and helping administer the $1 billion Neighborhood Development Fund, geared toward ensuring that growing neighborhoods undergoing rezoning have accompanying infrastructure investments.

The New York City Department of City Planning is a great place to work – cultivating intellectual inspiration, professional development and creativity. Visit our website at www.nyc.gov/planning to access the full listing of job opportunities and to learn more about our great agency.
THE DIVISION

Information Technology Division (ITD) is responsible for supporting the agency’s technology footprint including technology infrastructure across five boroughs, as well as workflow applications and databases for analytics and decision making. The division is comprised of 50+ inter-disciplinary staff with specialties in desktop support, server engineering, telecom, application development, database maintenance, data processing, data visualization and mapping, amongst many others. The division provides technology support for agency staff across five boroughs.

The Digital Services section within ITD is responsible for investigating and implementing forward-thinking technology tools to help urban planners’ productivity and efficiency. In developing tools for better planning and decision making, the group provides technology service delivery while leveraging agile development processes, rapid prototyping, and human-centered design.

THE ROLE

Digital Services is seeking a motivated, team-oriented, full-stack web developer to join the Open Source Engineering Team at the Associate Software Engineer level to work on new projects and sustain our existing portfolio. The developer will participate in all aspects of web application development including development of custom APIs, security & communications workflows, continuous integration, database development, frontend UI development, and client-side and server-side web mapping.

Our development team is enthusiastic about using Free and Open Source Software (FOSS) in public sector software development, and using modern practices such as agile workflows, developing in the open, rapid prototyping, and human-centered design. We are always open to improving our approach and technology stack. Currently we mostly use Ember.js and React for frontend development, and Typescript-based Nest.js and Rails for backend. Our code is hosted on GitHub, and deployed using services like Heroku and Netlify. We also use DigitalOcean for database hosting, and work with Microsoft Dynamics 365 CRM for the agency’s core business data. We use Azure Boards for issue management and communication with other IT teams at DCP.

PREFERRED QUALIFICATIONS:

- Above all else, an open mind and a passion for experimentation and learning new technologies.
- Frontend Development using modern JavaScript frameworks such as React, Ember, or Vue.
- Architecting server-side APIs and services, for example Rails or Express APIs.
- Expertise using Typescript to write clean statically typed front-end and server-side code
- Ability to ship clean, concise, production-ready code on a daily basis.
- Familiarity with test-driven development and experience writing unit and end-to-end tests
- Expertise in team-driven version control workflow using git, pull requests, rebasing, etc.
- Familiarity with using issue management for team work prioritization (bug reports, feature requests, etc.)
- Experience with Node.js and all aspects of the JavaScript ecosystem, npm module publishing, ES6, and code transpilation and bundling with tools such as Webpack, Parcel, or Vite
- Experience with both relational databases and NoSQL databases
- Knowledge of relational database best practices and domain modeling.
- A focus on spatial data and modern web mapping technologies, including PostGIS, Deck.gl, leaflet.js, Carto, MapboxGL, vector and raster tiles, geojson, and all manner of spatial data manipulation.
- Ability to write concise documentation and willingness to evangelize lessons learned both within the agency and the FOSS community at large.
- Experience synthesizing technical requirements by communicating directly with stakeholders and subject matter experts
- Open to giving and receiving feedback, such as through code reviews and engineering discussions
- Comfortable collaborating through pair programming, brainstorming and diagramming
**Bonus Points:**
- Experience configuring cloud services like Heroku, Netlify, DigitalOcean, Amazon Web Services, or Azure Portal
- Knowledge of DevOps tools like Docker, GitHub Actions, or Terraform
- Experience building RESTful APIs using the Swagger/OpenAPI specification
- Experience building and/or consuming GraphQL APIs
- Experience with data analysis and data engineering tools such as Python, Pandas, Dask, and Apache Airflow
- Familiarity with micro-service architectures and Domain Driven Design concepts
- Experience working with Microsoft Dynamics 365 CRM (or other vendor CRM), Sharepoint Online or Azure
- Experience with Microsoft APIs like Graph API or SharePoint REST API
- Have worked in a agile, iterative development setting
- Familiarity with urban planning methodologies and NYC history.

**MINIMUM REQUIREMENTS:**
Authorization to work in the United States is required for this position. **NYC Department of City Planning does not provide sponsorship for international employees.** Applicants are responsible for ensuring that they meet all minimum qualifying requirements for this position, at the time of application.

(1) A baccalaureate degree from an accredited college, including or supplemented by twenty-four (24) semester credits in computer science or a related computer field and two (2) years of satisfactory full-time software experience in designing, programming, debugging, maintaining, implementing, and enhancing computer software applications, systems programming, systems analysis and design, data communication software, or database design and programming, including one year in a project leader capacity or as a major contributor on a complex project; or

(2) A four-year high school diploma or its educational equivalent and six (6) years of full-time satisfactory software experience as described in “1” above, including one year in a project leader capacity or as a major contributor on a complex project; or

(3) A satisfactory combination of education and experience that is equivalent to (1) or (2) above. College education may be substituted for up to two years of the required experience in (2) above on the basis that sixty (60) semester credits from an accredited college is equated to one year of experience. A masters degree in computer science or a related computer field may be substituted for one year of the required experience in (1) or (2) above. However, all candidates must have a four year high school diploma or its educational equivalent, plus at least one (1) year of satisfactory full-time software experience in a project leader capacity or as a major contributor on a complex project.

**NOTE:** In order to have your experience accepted as Project Leader or Major Contributor experience, you must explain in detail how your experience qualifies you as a project leader or as a major contributor. Experience in computer operations, technical support, quality assurance (QA), hardware installation, help desk, or as an end user will not be accepted for meeting the minimum qualification requirements.

**Special Note**
To be eligible for placement in Assignment Level IV, in addition to the Qualification Requirements stated above, individuals must have one year of satisfactory experience in a project leader capacity or as a major contributor on a complex project in data administration, database management systems,
operating systems, data communications systems, capacity planning, and/or on-line applications programming.

TO APPLY: All applications must be submitted through ESS

City Employees
1. Log in to ESS.
2. Search for job ID number: 537091
3. Click on the job business title: Associate Software Engineer
4. Click on “Apply Now” at the bottom of the posting

Non-City Employees – Please visit: https://www1.nyc.gov/jobs/ and follow the steps below:
1. Search for job ID number: 537091
2. Click on the job business title: Associate Software Engineer
3. Click on “Apply Now” at the bottom of the posting

Only applicants under consideration will be contacted. Appointments are subject to Office of Management and Budget (OMB) approval.

As of August 2, 2021, all new hires must be vaccinated against the COVID-19 virus, unless they have been granted a reasonable accommodation for religion or disability. If you are offered city employment, this requirement must be met by your date of hire, unless a reasonable accommodation for exemption is received and approved by the hiring agency.

PLEASE NOTE: New York City residency is generally required within 90 days of appointment. However, City Employees in certain titles who have worked for the City for 2 continuous years may also be eligible to reside in Nassau, Suffolk, Putnam, Westchester, Rockland, or Orange County. To determine if the residency requirement applies to you, please discuss with a Human Capital representative.

The City of New York is an inclusive equal opportunity employer committed to recruiting and retaining a diverse workforce and providing a work environment that is free from discrimination and harassment based upon any legally protected status or protected characteristic, including but not limited to an individual's sex, race, color, ethnicity, national origin, age, religion, disability, sexual orientation, veteran status, gender identity, or pregnancy.

As a current or prospective employee of the City of New York, you may be eligible for federal loan forgiveness programs and state repayment assistance programs. Please review the notice to see if you may be eligible for programs and how to apply at nyc.gov/studentloans.