

Brian Hamilton

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EDUCATION

Graduate Center at the City University of New York

New York, New York — 2016-Present

Studying for a Master of Arts in Liberal Studies, specializing in data visualization and digital humanities.

Rensselaer Polytechnic Institute

Troy, New York — 2010-2014

Graduated as a Bachelor of Science in Information Technology and Web Science, with a concentration in Civil Engineering.

EXPERIENCE

Consultant Web Developer, New York City Transit

New York, New York — March 2015-Present

- Built data visualizations for subway and bus performance, using BIRT reports, JavaScript, jQuery, HTML, and SQL.
- Created a dashboard for real-time data display, using Node.js and React.js.
- Worked on adapting open-source projects for visualizing scheduled and real-time train movement, using Python, JavaScript (D3.js library), JSON, and SQL.
- Queried from an Oracle database, which included data for subway and bus ridership, daily arrival and departure times, and station information.
- Used real-time and scheduled data feeds to build static JSON files.

Network Engineer, Kraft Kennedy

New York, New York — July 2014-October 2014

- Experience in configuring and using SCCM and MDT to image workstations.
- Built and managed Active Directory, including the DHCP and DNS services.
- Gained a certification to install and configure Windows Server 2012 R2 (MCSA 70-410).
- Basic experience with VMware, Microsoft SQL Server, Microsoft Exchange, and Citrix XenApp.

System Administrator Intern, Susquehanna International Group

New York, New York — Summer 2013

- Troubleshoot and repaired problems with desktop hardware and software.
- Supported users in a fast-paced trading environment.
- Worked with financial applications, such as Bloomberg and FactSet.

SKILLS

- Proficient in basic web development technologies, including HTML5, CSS3, JavaScript, jQuery, and JSON.
- Using object-oriented programming languages, such as Python and C++.
- Experience building full-stack applications with Node.js, React.js, and PostgreSQL.
- Creating databases, normalizing tables, and querying using SQL.
- Building data visualizations with D3.js.
- Knowledgeable of the Windows, OS X, and Linux operating systems.
- Knowledge of transportation and general engineering principles, such as traffic engineering, statics, and rapid transit.

PROJECTS

- Node.js, React.js, and PostgreSQL application for a small classroom library. (Personal – Available on GitHub)
- Dashboard for visualizations and real-time data for the Rail Control Center. (New York City Transit)
- Visualization for real-time train movement and daily ridership. (New York City Transit)
- Website for the Brown Bag restaurant in Troy, New York (Rensselaer Polytechnic Institute - Fall 2013)