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

Software Engineer, DGDean
New York, New York — July 2017-Present
- Developed an internal data manager for Steady, using Node.js and Angular 5.
- Worked on the back-end API for Steady.

Consultant Web Developer, New York City Transit
New York, New York — March 2015-March 2017
- Built data visualizations for subway and bus performance, using BIRT reports, JavaScript, jQuery, HTML5, and SQL.
- Created a dashboard for real-time data display, using Node.js, React.js, Socket.IO, and RabbitMQ.
- Worked on adapting open-source projects for visualizing scheduled and real-time train movement, using Python, JavaScript (D3.js library), JSON, SQL, and Bootstrap.
- 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.

SKILLS

- Proficient in basic web development technologies, including HTML5, CSS3, JavaScript, jQuery, JSON, and XML.
- Using object-oriented programming languages, such as Python, C++, and C#.
- Experience building full-stack applications with Node.js, .NET, React, Angular 2+, PostgreSQL, MySQL, and MongoDB.
- Creating databases, normalizing tables, and querying using SQL.
- Building data visualizations with D3.js.
- Knowledge of transportation and general engineering principles, such as traffic engineering, statics, and rapid transit.

PROJECTS

- Internal data manager for Steady. (DGDean)
- Co-developer on Mirror, Mirror 2017, a D3.js data report for the Commonwealth Fund. (Consultant)
- Back-end developer on end/line, a web application for TEI encoding of poetry. (CUNY – Spring 2017)
- Node.js, React.js, and PostgreSQL application for a small classroom library. (Personal)
- 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)