

Brian Hamilton

1-518-391-5033 | hmltnbrn@gmail.com
github.com/hmltnbrn | brianhamilton.me

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

- Maintained HelpRx and other associated ScriptRelief websites, using Ruby on Rails, Nginx, and Linux.
- Co-developer for the Sweet Defeat platform, using HTML5, CSS3, and PHP.
- Developed an internal data manager for Steady with Node.js and Angular 5.

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).

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 Ruby.
- Experience building full-stack applications with Node.js, 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 and co-developer for Sweet Defeat. (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)