

Danielle Nguyen

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Education

Northeastern University

Boston, MA

Candidate for Bachelor of Science in Computer Science

May 2019

GPA: 3.08

Relevant Courses: Data Visualization, Web Development

Activities: NU Hacks - *President*, NU Women in Tech, Northeastern Theater Costume Lab

Events: BioVis, Grace Hopper WiT Conference, CODEX MIT Media Lab, HackBeanpot

Computer Knowledge

Languages: *Proficient in:* JavaScript, HTML, CSS/SCSS, *Familiar with:* R, Python, SQL

Software: Pixi.js, React/Redux, AngularJS, D3, SVG, Amazon Redshift

Work Experience

Bioinformatics Visualization Research Co-op

January 2018 - September 2018

Harvard Medical School

Boston, MA

- Created visualizations of genomic data with rapid scaling and aggregation using Pixi.js
- Optimized rendering 2x by reimplementing library components and using multi-vector matrix data structure
- Spoke and presented poster on genomic data visualization work at BioVis 2018 conference

Full Stack Software Co-op

January 2017 - June 2017

Kinto/Redstar Ventures

Cambridge, MA

- Designed and implemented reusable React components for family caregiver mobile app
- Utilized Redux actions and reducers to manage state changes within the app
- Added analytics to all pages and modals within the app using Redshift and DataGrip

Etrade Software Co-op

June 2016 - August 2016

Bank of America Merrill Lynch

New York, NY

- Developed a custom integration testing framework for a suite of bonds trading applications
- Enabled instantiation of trading system through one object using the builder pattern
- Replaced static lookup patterns and XML with mock and builder patterns for more flexible testing

Graduate Vis. in Network Science Teacher's Assistant

September 2017 - December 2017

Northeastern University Service Learning Program/Prof. Cody Dunne

Boston, MA

- Advised student groups on their network visualization projects and research papers
- Organized and facilitated project meetings between student groups and third-party clients
- Assessed students' work through grading and critiquing project deliverables

Relevant Projects

Women Writers' Project Heatmap Visualization:

July 2018 - Present

<https://github.com/VisDunneRight/WWOVis>

Northeastern University

- Created a heatmap representation of weighted graph using distance matrix and dendrogram R libraries
- Adapted the HiGlass genomic visualization tool to represent textual data from medieval women writers

Large Data Set Visualization Tool:

October 2016 - December 2016

<https://github.com/daniellenguyen/graphika>

Commissioned by Graphika Inc.

- Developed appealing visual representations of data sets using Tulip's data visualization API
- Improved visualization runtime by porting Python logic to D3 and PhantomJS