

# Danielle Nguyen

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## Education

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**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

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

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

## Work Experience

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**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

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**Women Writers' Project Heatmap Visualization:**

**July 2018 - Present**

<https://github.com/VisDunneRight/wwp-matrix>

*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