

## EDUCATION

**NORTHEASTERN UNIVERSITY, Boston MA**

**September 2019 – Present**

**Khoury College of Computer Sciences**

**Expected Graduation May 2023**

*Candidate for Bachelor of Science in Data Science and Biochemistry, Minor in Mathematics*

GPA: 3.7/ 4.0, Dean's List

**Relevant Courses:** Object Oriented Design | Information Presentation and Visualization | Database Design | Probability & Statistics | Linear Algebra | Differential Equations | Organic Chemistry | Biochemistry | Genetics & Molecular Biology

**Activities:** NU Women in Technology, Data Club, NUSCI, Club Volleyball, Big Sister, Chinese Student Association

## SKILLS

**Languages:** Python, Java, HTML/CSS, JavaScript, TypeScript, Tableau, Scala, Visual Basic

**General Office Tools:** Microsoft Office (Word, Excel, Powerpoint)

**Software:** AWS, Spark, Eclipse, Excel, Git, Vim, Jupyter, Angular, React

## WORK EXPERIENCE

**GENONE TECHNOLOGIES, Cambridge, MA**

**July 2021 – Present**

*Software Developer Co-op*

- Develop an Angular based NativeScript app that uses an iPhone sensor to sense the position of two custom printed toys using machine learning methods (SVM and SVR).
  - Test and collect data from an iPhone sensor using HTTP requests.
  - Perform data analysis using Python (matplotlib and plotly) to evaluate the functionality of the app.
- Present project findings to lead software developer and founding partners during weekly standup.

**NORTHEASTERN UNIVERSITY, Boston, MA**

**January 2020 – Present**

*Research Assistant*

- Collaborate with a PhD candidate to utilize DNA sequencing and bioinformatics approaches to identify the metabolic potential of microbial communities.

**SIGNIFY HEALTH, New York, NY**

**June 2020 – August 2020**

*Data Science Intern*

- Formulated a novel model to represent heterogeneous data in electronic health records using a 3D tensor.
  - Implemented model in a machine learning algorithm to predict potential surgeries of clients in advance.
- Developed perplexity-based probability models using Python and Scala to evaluate over 10,000 patients.
- Aggregated patient data from healthcare claims using Spark and AWS.

## PERSONAL AND ACADEMIC PROJECTS

**Northeastern Research Database:**

- Created a Flask web application using PyMySQL for students to navigate and apply to research labs for all Northeastern's colleges using real-world data stored in a MySQL database schema.

**Visualizing Boston Tap Water:**

*Project URL:* <https://neu-ds-4200-f20.github.io/project-group-07-boston-tap-water/>

- Designed a website encoding a stacked bar chart, table and heatmap using JavaScript (d3.js), HTML and CSS.

**Predicting Coronary Heart Disease:**

- Explored machine learning algorithms (Logistic Regression, Support Vector Classifier, K Nearest neighbor, Naïve Bayes, Decision Tree Classifier) to predict if a given patient will develop heart disease using Python.
  - Determined that Logistic Regression and Support Vector Classifier worked the best with an accuracy of ~ 85%.

## LEADERSHIP

---

### **Data Club, *Communications Director***

**November 2020 – Present**

- Deliver and respond to information via emails and Slack and maintain a calendar with events and workshops.
- Facilitated a Tableau workshop to members (<https://www.youtube.com/watch?v=sHlZz0FM4BU&t=1809s>).

### **NU Women in Technology, *Vice President***

**April 2020 – Present**

- Coordinate all club events and communications with general members.
- Manage relationships with corporations interested in partnering with NU Women in Technology.

### **NUSCI Science Magazine Club, *Writer***

**September 2019 – Present**

- Published work in the fields of ethics, sustainable energy, political argumentation and quantum computing.

*References available upon request.*