

# Kate Rugar

(203) 997-8940 • 450 Parker St, Boston, MA, 02115 • rugar.k@husky.neu.edu  
linkedin.com/in/rupark • github.com/rupark • rupark.github.io  
*Available May - December 2020*

## EDUCATION

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**Northeastern University, Boston, MA** Sept. 2017 - Present

*Khoury College of Computer Sciences*

Candidate for a Bachelor of Science in Computer Science, Specialization in Cyber Operations Exp. May 2021

**GPA:** 3.663/4.0

### Related Coursework:

Foundations of Information Assurance (Graduate Level), Network Fundamentals, Computer Systems, Object-Oriented Design, Algorithms and Data Structures, Discrete Structures, Embedded Design: Enabling Robotics, Theory of Computation, Fundamentals of Computer Science

### Activities:

Alpha Chi Omega Sorority (Founding Member, Sisterhood Chair), NU Culture and Language Learning Society (Member), NU Women in Technology (Member), FIRST Robotics (High School)

## TECHNICAL SKILLS *(in order of proficiency)*

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**Languages:** Java, Python, C, Racket (BSL, ISL), C++, HTML/CSS, SQL

**Operating Systems:** macOS, Linux (Ubuntu, Unix), Windows 10

**Software:** Adobe Photoshop/Illustrator/InDesign, Arduino, LaTeX, Git/GitHub, Visio, Tableau

## EXPERIENCE

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**The TJX Companies Inc., Framingham, MA** July 2019 - Present

*IT Engineering Co-op*

- Develop alongside the TJX ecommerce solution delivery team and third party contractor T4G a multi-banner merchandise financial planning application for T.J. Maxx, Marshalls and Sierra employee buyers
- Extracted and formatted data from TJX databases using SQL queries to be displayed in the application, resolved data defects, and created critical documents in Excel and Visio detailing application integration points and TJX server layouts
- Created a dashboard in Tableau for the CIO displaying real-time information about employee attrition and acquisition, I&O tickets, company finances, and security threats using data acquired through communication with key stakeholders

**Northeastern University College of Arts, Media and Design, Boston, MA**

May 2018 - Present

*Research Assistant*

- Create under direction of a Northeastern University professor an interactive art media installation focusing on the relationship between color and emotion to be displayed in Boston City Hall
- Develop scripts in C++ using Arduino IDE and FastLED library to enable 260+ visitors daily to interact with LED displays through capacitive touch sensors

## PROJECTS

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**Scavvy | "Top 10 Hack" at HackBeanpot** February 2018

- Co-produced an IOS application written in Swift that sends players on a scavenger hunt with 30 seconds to point their camera at different objects
- Utilizes Apple's Vision framework and Core ML model to confirm players located the correct object

### Class Projects

**C:** Mini-Shell, Custom Memory Allocator

**Java:** Minesweeper Game, Marble Solitaire Game, Animation Creator

**Python:** Web Crawler, Simple Socket Client

## INTERESTS

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Musical Theater, Digital Design, Zumba