

# ANIRUDH SINGH

Available: September – December 2020 | Boston, MA | + 1 (253) 880-8099  
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## EDUCATION

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**Khoury College of Computer Sciences, Northeastern University, Boston, MA** Expected Grad: May 2021  
*Bachelor of Science in Computer Science, Minor in Mathematics* GPA: 3.52/4.0  
Relevant Courses: Object-Oriented Design, Algorithms & Data, Artificial Intelligence, Computer Systems, Discrete Structures, Networks & Distributed Systems, Probability & Statistics, Foundations of Data Science

## TECHNICAL KNOWLEDGE

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**Languages:** Java, Python, JavaScript, SQL, HTML, CSS, C/C++, Racket  
**Frameworks/Libraries:** React, Bootstrap, Express, Flask, Scikit-learn, Pandas, NLTK  
**Other Tools:** Node.js, REST APIs, MySQL, MongoDB, Git, AWS, Windows/Linux, Postman, Docker, ML basics, Agile Scrum

## PROJECTS

### Real or Not? NLP with Disaster Tweets

- Sentiment Analysis performed using Python, Natural Language Processing, Machine Learning, and Inferential Statistics to determine disaster status of a tweet.
- Conducted data cleaning methods, feature extraction, classification modeling, data visualization, and other techniques to show how Twitter can be a valuable mechanism to broadcast information in times of a disaster.

### ExCEllence Animation

- Built Java-based user-interactive application that renders 2D animations of shapes using Swing and AWT libraries.
- Applied MVC architecture to achieve separation of concerns and facilitation of multiple views, while performing unit testing with mocking.

### Personal Website/Portfolio

- Designed and developed single-page portfolio with HTML5, CSS3, JavaScript, jQuery, and Bootstrap4. Visit page at <https://anirudh723.github.io>.

### ALEXA Skill

- Built Amazon ALEXA skill called 'Computer Science Wiki' using Python and AWS Lambda to run and test code.
- Skill provides over 20 definitions for common keywords in field of Computer Science.

### Mechatronic Bridge

- Built programmable miniature bascule bridge using Arduino and set sensors.
- Bridge involved variety of components including structural analysis and robotic programming.

## WORK EXPERIENCE

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### Web Development Intern June 2020 – August 2020

Massachusetts Technology Collaborative | Westborough, MA

- Wrote Python scripts to migrate data from Excel to MySQL database for improved interpretability and faster queries.
- Built analytics web application using React, Node.js and Express that displays information from database. Dashboard includes quick facts and filter dropdowns to allow users to specify search criteria.
- Developed dashboard across entire tech stack from planning to deployment phases as sole project member.

### Teaching Assistant, CS3500: Object-Oriented Design May 2020 – July 2020

Khoury College of Computer Sciences, Northeastern University | Boston, MA

- Hold office hours to help students improve code structure and design choices.
- Reinforce concepts including MVC architecture, inheritance, polymorphism, abstraction, etc.

### Customer Service and Sales Intern June 2017 – Aug 2017

T-Mobile | Tacoma, WA

- Managed inventory using operations management application.
- Developed useful sales and customer service skills by consulting with over 200 customers daily, providing solutions that best fit needs.