

# Trang Ngo

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[github.com/tngo04](https://github.com/tngo04) | [tngo04.github.io](https://tngo04.github.io)

## EDUCATION

**Khoury College of Computer Sciences, Northeastern University, Boston, MA** September 2022 – Present  
*MSc in Computer Science Candidate, GPA: 4.0/4.0* *Expected Graduation: December 2024*

**Tufts University, Medford, MA** September 2015 – May 2019  
*BSc in Chemical Engineering, summa cum laude, GPA: 3.95/4.0*

**Relevant Coursework:** Computer Systems, Data Structures and Algorithms, Object Oriented Programming, Artificial Intelligence, Mathematical Modelling, Linear Algebra, Programming in C++, Computing for Engineering with MATLAB  
**Awards:** Audrey Butvay Gruss Science Award, Karno Dean's Award, Tau Beta Pi Scholars, Prize Scholarship of 1882

## TECHNICAL SKILLS

**Programming Languages:** Java, C++/C, Python, CSS, HTML, JavaScript, TypeScript, SQL, MATLAB

**Technologies:** React.js, Redux, Bootstrap, Node.js, Express.js, MongoDB, MySQL, Spring, AWS CDK, jQuery

**Tools:** Git/GitHub, Linux, Docker, Shell, Figma, Airtable, Tableau, Slack, Mayhem, Microsoft Office, LabVIEW

## PROJECTS

### Five-in-a-Row Game Web App

*A full-stack web application enabling users to register and play Five-in-a-Row against other players or an AI opponent*

- Created a three-tier application using React.js (client), JavaScript, Spring Boot (server), and MongoDB (database)
- Developed RESTful APIs and utilized WebSocket for multi-player functionality, user service, and real-time updates
- Implemented game logic and AI player functionality using Java objects on server side

### Animated Flip Book Application

- Created a Java-based MVC application with multiple classes (Shape, Color, etc.) to generate simple images using Graphics library and display images as an animated flip book on a Swing GUI
- Wrote extensive JUnit tests for each class to ensure correct functionality

### Mayhem Heroes Participant

- Integrated Mayhem, a fuzzing tool to automatically detect software defects, into 15 qualified OSS GitHub projects

## WORK EXPERIENCES

**Northeastern University Khoury College of Computer Science** January 2023 - Present  
*Graduate Teaching Assistant for Object Oriented Design* *Boston, MA*

- Led weekly computer labs for 20+ students and facilitated office hours to teach Object Oriented Design concepts
- Collaborated with instructor and 10 other teaching assistants to manage logistics for course with 100+ students

**ZwitterCo, Inc.** May 2019 - July 2022  
*Chemical Engineer II* *Somerville, MA*

- Designed and built 2 pilot water treatment systems, with a budget of \$20,000, task including: hardware prototyping and assembly, electrical design, and development of a user interface and automation application using LabVIEW
- Worked with the Field Engineering Team to provide technical support, including system commissioning and troubleshooting, training operators, developing internal tools, analyzing data and identifying key findings
- Built 3 in-house lab systems and data acquisition applications to support internal product testing
- Spearheaded the implementation of standard workflows and project management tools for laboratory processes, reducing operational errors and improving turnaround time by 30%
- Provided training and mentorship, as well as managed projects for 4 co-op students over 3 co-op cycles

**E Ink Corporation** June - August 2018  
*Summer Innovation Intern* *Billerica, MA*

- Prototyped a new approach to measure moisture content in E Ink devices, reducing test time and cost by 60%
- Programmed PIC microcontrollers using C to record, process waveform data, and measure properties of devices