

# Shaun (Shen Teck) Ho

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## EDUCATION:

**Northeastern University**, Seattle, WA August 2019 – Present  
Khoury College of Computer Sciences  
Candidate for a Master of Science in Computer Science GPA: 3.86

**Northeastern University**, Boston, MA January 2015 - May 2018  
Bachelor of Science degree in Environmental Science  
Concentration in Geoscience  
Honors: Dean's List (Spring 2016), *magna cum laude* GPA: 3.76

## TECHNICAL KNOWLEDGE:

Languages: Python, Java, JavaScript, HTML, CSS  
Frameworks, Libraries, Databases, and Platforms: Express, Node.js, React, SQL, MongoDB  
Operating Systems: Macintosh OS, Windows XP/8/10, Linux

## PROJECTS:

Conway's Game of Life Simulation November 2020

- Used React to create a web app that is a simulation of a system where cells "live" and "die" in a state of relative equilibrium.
- Utilized React Hooks to build the web app with emphasis on state management as well as compact, reusable components.
- Improved user experience by allowing board size selection, speed toggling of each iteration, and the option of displaying a heatmap

Full Stack Food Delivery App (Hungry Hippos) September 2020

- Utilized full stack technologies (Java, React, MongoDB) to build a functional food delivery web application with MVC architecture.
- Integrated Java with the MongoDB database
- Used Spark Java web framework to efficiently develop the web application
- Incorporated Agile workflow with team members to conduct code reviews and set sprint goals.

To-Do List Task Management Application March 2020

- Designed a fully functional command-line task management application in Java with basic Model View Controller architecture, which allows users to create and organize their 'to-do' lists
- Implemented a command-line parser to determine what the client wants and allows flexibility in how the 'to-do' list is generated

Reversi Board Game October 2019

- Used Processing, a flexible software sketchbook to design and implement a board game called 'Reversi' with Python
- Executed a DFS algorithm to find all possible moves on the board and designed a simple AI opponent based on the algorithm
- Implemented classes that launched the initial set up of the board, determined whose turn it would be, and flipped disk color
- Improved user experience by displaying which tiles were flipped, announcing the winner, and creating a leaderboard

## WORK EXPERIENCE:

**Bluefield Research**, Boston May 2018 – March 2019

### Data Analyst

- Collaborated with the VP of Bluefield Research to work on a consulting project detailing international and adjacent market growth on pneumatic pipe plug solutions for Bluefield Research's client:
  - Estimated market size by country based on top-down industry indicators (population growth, infrastructure plans) combined with bottom-up inputs (utility capital expenditure) using 2016 – 2017 as a baseline for forecasts for 2018 – 2023
  - Evaluated leading market players, distributors, and competitors in 24 countries through primary and secondary research inputs
- Worked on a project to create Bluefield Research's third consecutive data insight on U.S. municipal water and wastewater utility bill index, creating forecasts based on Bluefield Research's models and drawing data from more than 59 water and sewer utilities
- Led a project for a client requesting overview of the water needs of the U.S. automotive industry, which was consolidated into a 25-page research deliverable and presented to the client via tele-conference:
  - Formed company profiles on major players in the automotive industry, studied investments and expenditure within the automotive industry, and identified trends of water use within the automotive industry based on existing and historical data
  - Examined case studies of innovative water management strategies at more than 10 auto assembly facilities and parts manufacturers to pinpoint areas of water management risk to the industry

### Singapore Armed Forces, Singapore

**Combat Medic Instructor (3<sup>rd</sup> Sergeant)** December 2012 – December 2014

- Responsible for training, cleanliness, and personal appearance of over 1000 soldiers across 50 different units
- Gained 1.5 years of management, leadership, and public speaking experience conducting instructional first aid and combat medic lessons to over 50 different active and reserve units including medical center personnel
- Nominated for and received the Best Soldier Award for Singapore Medical Training Institute in September 2014