

SHEVINU NAWALAGE

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EDUCATION

Memorial University of Newfoundland

Bachelor of Science in Computer Science (GPA: 3.91 / 4.0)

Sep. 2021 - April 2025

St. John's, NL

Relevant Coursework

- Data Structures and Algorithms
- Discrete Mathematics for Computer Science
- Software Engineering
- Foundations of Computer Systems
- Computer Architecture and Design
- Object Oriented Programming and Human-Computer Interaction

TECHNICAL SKILLS

Proficient: Java, Python, HTML, CSS, SQL, Bootstrap

Familiar : JavaScript, Spring Boot, Spring, Flask, AWS Elastic Beanstalk, jQuery, JUnit, Swing

Developer Tools: PostgreSQL, Git, pip, Visual Studio Code, IntelliJ IDEA, Postman, Docker

PROJECTS

Can't Stop | Java, Swing

January 2023 - April 2023

- Collaborated with a team of four to develop a desktop game that digitally replicates the Can't Stop board game.
- Specialized in back-end development, designed and implemented the game logic using Java, effectively translating the physical game rules into a virtual environment.
- Implemented a comprehensive algorithm to determine the relative positioning of the pieces on the board according to the dice rolls. Algorithm also determines the winner based on the dice positioning represented in multiple data structures
- Implemented load/save functionality through serialization utilizing Data Storage classes to save the current state of the board allowing for the future possibility of networking as well.

Sheldon | Python, Flask, HTML, CSS, JavaScript, AWS Elastic Beanstalk

May 2023 - June 2023

- Developed a responsive full-stack chatbot application, specifically tailored to respond to queries related to portfolio building, as a part of a hackathon.
- Implemented a persistent caching mechanism to optimize response times and reduce the number of costly API calls.
- Leveraged AWS Elastic Beanstalk for efficient application deployment and management, ensuring high availability and scalable performance.

Personal Portfolio Page | JavaScript, HTML, CSS, jQuery, Bootstrap

June 2023

- Developed a responsive and interactive personal portfolio website showcasing my personal projects and skills.

Data Structures and Algorithms | Java, Python

Ongoing

- Wrote solutions and explanations to 90+ complex DSA problems to hone my problem solving skills.
- Wrote my approach to each problem for others interested to refer to and learn.

SafePass | Java, JUnit

May 2023 - Present

- Developing "SafePass," a secure desktop password manager, emphasizing local storage for improved data security.
- Enhanced security with PBKDF2 HmacSHA256 hashing and salting for reliable password storage.
- Built SafePass for extensibility, using plug-in interfaces, MVC design pattern, and core OOP concepts to create a scalable codebase.
- Work in Progress: Utilize Spring Boot, implementing a SQL database for data management, and creating a user-friendly interface with JavaFX.

EXPERIENCE

Memorial University of Newfoundland - CITL

Oct 2022 - April 2023

Design and Development Assistant

St. John's, NL

- Designed and deployed interactive educational webpages and posters using HTML and CSS.
- Created instructive modules simplifying Windows, Mac, and Chrome OS operations for tech novices, bridging the knowledge gap and empowering users.
- Performed an extensive usability analysis on the Brightspace website and proposed user-centric enhancements to bolster efficiency and user experience.