

DANIEL HERSEY

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ACADEMIC PROJECTS

HYPO (Hypothetical Decimal) Machine

Framingham State University

- Spring 2020 Java, Machine code
- Capstone project for Computer Science students at Framingham State University
- Program written in Java that simulated the memory and CPU hardware of a computer, capable of running the MTOPS operating system, an operating system created for the class intended to run on a micro computer.
- Wrote Assembly code that we then converted into machine code and fed into the HYPO machine.

BuySellBooks online Library

Framingham State University

- Spring 2020 HTML, JSP, CSS, SQL, JavaScript

Simulated an online library website using a book database and three user types, Seller, Buyer, and Admin. I was responsible for all of Seller, and most of Buyer.

Used SQL queries to pull and manipulate data from a database hosted using PHPmyAdmin. SQL strings were used to enable "purchasing" a book from a seller's inventory on the buyer's end.

PERSONAL PROJECTS

Sudoku Solver

- Summer 2020 Java, Swing UI

Wanted to learn more about the backtracking algorithm and practice GUI development in Java using Swing.

Program solves a user given Sudoku Board. If the board is invalid it prints so.

Employee Manager

- Summer 2019 Python

Simple GUI program that allows user to add/delete and lookup employees from a dictionary.

Wanted to learn how to create simple user interfaces in Python

Personal Website

- Winter 2020 - Ongoing HTML, CSS, JavaScript

Simple portfolio website that I am currently working on.

Plan to host more in depth project descriptions on the site.

SKILLS

Customer Service Passionate for Technology
Hard-working

Microsoft Excel ReactJS
Bootstrap MySQL OOP

LANGUAGES

HTML ● ● ● ● ●

JavaScript ● ● ● ● ●

CSS ● ● ● ● ●

Java ● ● ● ● ●

SQL ● ● ● ● ●

EDUCATION

B.S Computer Science

Framingham State University

Aug 2016 - May 2020

EXPERIENCE

Meat Clerk

Market Basket

2015 - 2021 Newburyport, MA

- Strong customer service skills developed over time. Familiarity handling difficult customers.