**Ethan G. Manis**

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**PERSONAL PROJECTS**

**Self-Balancing Binary Search Tree,** [**Project Link**](https://github.com/ethan3212/Binary-Tree) **Dec 2020**

***Skills*** *– Java, Proficiency with Data Structures*

* An application showcasing the binary tree data structure and all its related functions.
* Performs: insertion, deletion, searching, and displaying the tree. Additionally, it allows the user to perform three separate types of traversals: in-order, pre-order, and post-order.

**E-Commerce Database,** [**Project Link**](https://github.com/ethan3212/E-Commerce-Database-Final-Project) **Aug 2021**

***Skills –*** *SQL, Proficiency with Table Normalization, RDBM,*

* A batch script written to create an E-Commerce database in MySQL.
* Creates: one database, eight tables, four functions, and one view.
* Relatively complex relational database schema, making use of various table relationship types.

**Sorting Algorithms Analysis,** [**Project Link**](https://github.com/ethan3212/Examination-Analyzation-of-Sorting-Algorithms) **May 2021**

***Skills******–*** *C#, Proficiency with Algorithms*

* A terminal application that analyzes and compares seven different sorting algorithms based on their loop-counts and execution times.
* **Sorting algorithms implemented:** bubble, shell, quick, insertion, heap, merge, and radix
* Pulls information from text files and parses them through the sorting routine gauntlet.
* Results are automatically written to an external file which can be used to conduct further analysis.

**EMPLOYMENT HISTORY**

**Psychiatric Nursing Assistant *Department of Defense* May 2016 – Present**

* **Spearheaded** the Prevention and Management of Disruptive Behaviors (PMDB) initiative for the hospital, personally training and certifying all personnel.
* **Hand selected** to work with a small team of technicians, nurses, and providers to provide emergency care in response to the Covid-19 outbreak.

**Behavioral Health Technician *United States Army/Department of Defense* March 2012 – March 2016**

* **Lead** and mentored a small team of soldiers which was recognized by the unit commander, earning an Army Commendation Medal (ARCOM).
* **Successfully** completed the rigorous Army Air Assault course, which has a fifty-five percent attrition rate.
* **Awarded** an Army Commendation Medal (ARCOM) for selfless actions taken in amidst the Fort Hood shooting on April 2nd 2014.

**Barista *Starbucks* August 2010 – February 2012**

* **Managed** business operations: ordering of merchandise and store resources, scheduling, and training.

**Courtesy Clerk *Kroger* June 2009 – July 2010**

* **Trained** and oriented newly hired staff members.

**EDUCATION**

**Texas A&M University Central Texas, Killeen, TX 2018 - 2021**

[Bachelors of Business Administration](https://www.parchment.com/u/s/U1Y3): Computer Information Systems with a concentration in software engineering and database design.