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PROJECTS

- Sudoku**  Python, Pytest Jan 2021
- Object-oriented, test-driven development of a the Backtrack Sudoku Solving algorithm.
 - Designed modules to have a single purpose and a separate module to merge their functionality.
 - Optimized algorithm to solve hard sudokus in 1.4 seconds down from 3.7 and mark one as impossible in 36 seconds down from 80.
- Finance**  Python, Flask, SQLite Apr 2020
- Development of a web application to simulate selling and purchasing shares.
 - Storage done in a SQL Lite database.
 - Among the data present are the users, their shares, and their buy-sell history.
- Compiler**  C, Flex, Bison Nov 2019
- Design of a compiler for the recognition of a Leftmost Derivation Grammar.
 - Utilization of a simplified syntax tree structure to order given instructions.
 - Variables and functions stored in a symbol table, of a hash table structure type.
- Kubeet**  Typescript, Angular 7, Firebase May 2018
- Creation of thirteen Angular components of a single page application.
 - Modules in charge of presenting a catalogue of self-study material with different views.
 - Retrieval of data through the Google Firebase database.
- Crafter**  Swift May 2018
- Development of a bus monitoring prototype within a company for the iOS platform.
 - Usage of XCode's visual components to create a responsive interface of thirteenth components.
- Residences**  C May 2017
- Creation of a simple residence data hosting system.
 - Translation of the AVL Tree data structure for storage in a text file.
 - CRUD functionality using the console, writing and reading from the file.
- Connect 4** Java, Swing Nov 2016
- Programming of a visual game of Connect 4 using the Swing graphics library in Netbeans.
 - Basic follow-up of turns and rules, operating with matrices. CLI and GUI versions available.

EXPERIENCE

- PrepaNet** Online Tutor , Puebla de Zaragoza Aug 2018 - Nov 2018
- Follow-up of twelve students during their learning of Microsoft Word & Excel in a period of four months.
 - They were given a weekly agenda designed in Photoshop to facilitate their studies.
 - Advisory and evaluation given via the PrepaNet platform.
- Tecnologico de Monterrey** IT Helper , Veracruz Jan 2016 - Abr 2016
- Maintenance of Windows work computers regarding cache and temporary files cleaning.
 - Installation of Office, Adobe and other computer maintenance software.

EDUCATION

- Tecnologico de Monterrey** Campus Puebla Aug 2015 - Jun 2020
- B.S. Computer Science and Technology

SKILLS

Languages ,
Technologies ,
Relevant ,
Studies ,