

THOMAS HARI E. BUDIHARDJO

thomas.budihardjo@gmail.com

(832) 600-8860

Houston / College Station

OBJECTIVE

Seeking employment as a software engineer starting summer of 2021

EDUCATION

Texas A&M University, College Station, TX

Expected Graduation: May 2021

GPA: 3.69

- Bachelor of Science in **Computer Science**
 - Minor in **Statistics**
 - Completed coursework: Data Structure and Algorithms, Design and Analysis of Algorithms, Discrete Structures for Computing, Computer Organization, Database Systems, Machine Learning, Data Science
-

TECHNICAL SKILLS

- Proficient in C++, Python, Java, SQL
 - Familiar with Ruby, Haskell, R
 - Learning HTML, CSS, JavaScript, C#
-

PROJECTS

ENDEAVR Interdisciplinary Project — Team Titanium 22

- Tasked with developing solutions to the problems the community of Nolanville, TX is facing as part of their mission to become a “smart city”
- Implemented a k-Nearest Neighbor model to predict where floods are likely to occur
- Created a prototype platform where residents can report issues and suggest improvement projects to city leaders and live information about construction projects can be delivered to the residents
- Awarded the Best Project, Creativity, and Pinnacle certificates

Database Management System

- Designed and developed a DBMS for managing and querying data from The Movie Database (TMDb) for use in an introductory film studies course in the College of Liberal Arts
- Created a parser to support SQL commands and corresponding functions to manipulate the database
- Created a corresponding graphical user interface using JavaFX

UNIX Shell

- Created a shell that executes common Bash commands such as echo, cd, sleep, awk, and grep
- Features include continuous input, piping, I/O redirection, and background processing

Translator (Nand2tetris course)

- Created translator to parse and translate bytecode into code in assembly language
- Created assembler to parse and translate code in symbolic machine language into binary machine code

Snake Game

- Created a Snake game with accessibility-minded controls in C# using Unity
 - Features include remappable controls (including voice controls), hover-to-select, and distinct selectable text
-

EXTRA-CURRICULAR

- Texas A&M Data Analytics Club
- St. Mary's Catholic Center Orchestra, College Station
- Texas A&M Spring Programming Competition 2019
- The Big Event Cleanup Volunteer 2018, Texas A&M University