THOMAS HARI E. BUDIHARDJO

Computer Science New-Grad

Houston, Texas @ thomas.budihardjo@gmail.com (832) 600-8860 thomasbud.github.io in thomasbud

EDUCATION

B.Sc. in Computer Science
with Minors in Cybersecurity and Statistics

GPA: 3.734/4
Magna Cum Laude

Texas A&M University

2017 – 2021   College Station, Texas

PROJECTS

GameShare Web App
Next.js, Tailwind CSS, MongoDB, Mongoose, Postman, npm, Vercel

Feb – May 2021

- Led a team of five to develop a board game rental web application
- Utilized Tailwind CSS to style website components and leveraged React Hooks to maintain state variables within the Next.js framework
- Designed model to store user and inventory information in MongoDB
- Implemented location search by leveraging OpenCage Geocoding API
- Presented application to a panel of industry professionals showcasing communication skills, critical thinking, and design-oriented thinking

Points Tracker for TAMU Engineering Honors
Ruby, Rails, Bootstrap, PostgreSQL, Heroku, Microsoft Teams

Sep – Nov 2020

- Worked in a scrum team of five to develop a web application that allows officers and members to track participation in club activities
- Adhered to agile methodology by participating in daily standups and biweekly backlog grooming to deliver on biweekly sprints
- Designed, created, and managed user roles and privileges
- Utilized Ruby on Rails with PostgreSQL in accordance with MVC design pattern to implement RESTful routing and CRUD functionality
- Followed TDD principles leveraging RSpec to write integration unit tests and Capybara to create acceptance tests

Reify Mobile Platform
Python, SciPy, NumPy, scikit-learn

Jan – May 2020

- Worked in a team with members from 6 fields of study to develop a Mobile application prototype design as part of ENDEAVR Interdisciplinary Team Project smart city challenge
- Implemented a k-Nearest Neighbor model to predict where floods are likely to occur as part of an alert system

Movie Database Management System
Java, JavaFX, SQL, ANTLR

Sep – Oct 2019

- Designed and developed a DBMS in Java and a corresponding GUI using JavaFX to store, manage, and query data imported from TMDb for use in a film studies course in the College of Liberal Arts
- Utilized the ANTLR parser generator to translate SQL commands into the corresponding Java methods to implement data manipulation
- Practiced pair programming and efficient usage of data structures

COURSEWORK

Machine Learning   Data Science
Statistics   Software Engineering
Computer & Network Security
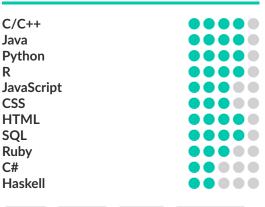Database Systems   Operating Systems
Information Storage & Retrieval
Data Structure & Algorithms
Design & Analysis of Algorithms
Computer Organization   Linear Algebra

LANGUAGES / TOOLS

C/C++   ●●●●○
Java   ●●●●○
Python   ●●●●○
R   ●●●●○
JavaScript ●●●●○
CSS   ●●●●○
HTML   ●●●●○
SQL   ●●●○○
Ruby   ●●●○○
C#   ●●○○○
Haskell   ●●○○○

React   Next.js   Vercel   MongoDB
PostgreSQL   Postman   Bootstrap
Tailwind CSS   Ruby on Rails   Heroku
Git   Jira   Linux   Unity   AWS
Amazon EC2   VirtualBox   Docker
Bash   Wireshark   Scapy   pandas
NumPy   SciPy   scikit-learn   LaTeX

ACTIVITIES

St. Mary's Catholic Center Orchestra

2017 – 2020   College Station, Texas

Texas A&M Data Analytics Club

2019 – 2020   Texas A&M University

TAMU Team Programming Contest

April 2019   Texas A&M University

The Big Event Cleanup Volunteer

March 2018   College Station, Texas

Interests: songwriting, discovering new music, traveling (have been to all 50 states), live-streaming, chess, soccer, Formula 1