THOMAS HARI E. BUDIHARDJO

An Aspiring Engineer, Internet Lover & Music Geek

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

EDUCATION

B.Sc. in Computer Science — GPA: 3.734/4
with Minors in Cybersecurity and Statistics — Magna Cum Laude

Texas A&M University

2017 – 2021 — College Station, Texas

PROJECTS

GameShare Web App

Next.js, Tailwind CSS, MongoDB, Mongoose, npm, Vercel

Feb – May 2021

- Web application that facilitates the lending and leasing of board games using Stripe for payment
- Utilized Next.js to leverage the React framework to create a scalable application; deployed on Vercel
- Designed model to store user and inventory information in MongoDB
- Implemented area-based location queries by leveraging the OpenCage Geocoding API
- Cooperated with 4 other members using Bitbucket for version control and Discord for communication

Points Tracker for TAMU Engineering Honors

Ruby, Rails, Bootstrap, PostgreSQL, Heroku, Microsoft Teams

Sep – Nov 2020

- Web application that allows officers and members to track members' activities in the organization
- Utilized Ruby on Rails with PostgreSQL in accordance with MVC design principles to implement RESTful routing and CRUD functionality; created documentation for clients, deployed application on Heroku
- Followed TDD principles leveraging RSpec to write integration unit tests and Capybara to create acceptance tests
- Adhered to agile methodology by working in two-week sprints and participating in daily standups and bi-weekly backlog grooming meetings utilizing Jira
- Cooperated with 4 other members using GitHub for version control and Microsoft Teams for communication

Reify Mobile Platform

Python, SciPy, NumPy, scikit-learn, GIS

Jan – May 2020

- Mobile application prototype design that allows residents, city leaders, and contractors in the city of Nolanville, TX communicate as part of the ENDEAVR Interdisciplinary Team Project smart city challenge
- Weekly coordination meetings with team members from 6 different fields of study
- Implemented a k-Nearest Neighbor model to predict where floods are likely to occur as part of the alert system
- Awarded the Best Project, Creativity, and Pinnacle certificates

COURSEWORK

Machine Learning | Data Science | Statistics | Software Engineering | Computer and Network Security | Database Systems | Operating Systems | Information Storage and Retrieval | Data Structure and Algorithms | Design and Analysis of Algorithms | Discrete Structures for Computing | Computer Organization | Linear Algebra

LANGUAGES / TOOLS

C/C++
Java
Python
R
JavaScript
CSS
HTML
SQL
Ruby
C#
Haskell
MATLAB
LabVIEW

React | Next.js | Vercel | MongoDB | PostgreSQL | Bootstrap | Tailwind CSS | Ruby on Rails | Heroku | Git | Jira | AWS | Amazon EC2 | Bash | Unity | pandas | NumPy | SciPy | scikit-learn

ACTIVITIES

St. Mary's Catholic Center Orchestra

2017 – 2021 — 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, finding new music, live-streaming, chess, soccer, Formula 1, FPS games