

Mahirah Samah

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OBJECTIVE

Motivated computer science student looking for a software engineering or data science internship. Seeking a position for the purpose of learning about real-life challenges in computer science and facilitate institutional and professional growth.

EDUCATION

BS Computer Science, Texas A&M University – College Station, TX

Expected: May 2023

- **Minor:** Statistics

Relevant Coursework: Data Structures and Algorithms, Design and Analysis of Algorithms, Programming Languages, Computer Systems and Architecture, Database Systems, Machine Learning, Discrete Math, Linear Algebra, Statistics

PROGRAMMING SKILLS

- **Languages:** C++, Python, Java, HTML5, CSS, JavaScript, Hardware Description Language
- **Technologies:** GitHub, RStudio, React.js, Visual Studio Code, Eclipse, Linux, Microsoft Office

EXPERIENCE

Co-Project Manager of StudyBuddy App, Texas A&M Aggie Coding Club

Feb 2020 – Aug 2021

- Administered a learning-oriented project under Aggie Coding Club
- Engineered software of a study app and supervised a team of 8 students
- Implemented Python as back-end, Java as front-end, and Google Vision APIs to convert picture to text
- Researched and wrote code with a committed group of students for 3 consecutive semesters

Alzheimer's Disease Research, Texas A&M Department of Statistics

Jan 2022 – Present

- Conducting Bayesian analysis of high-dimensional data with application in neuroscience in RStudio
- Collaborating with a team of eight to analyze 115 variables that possibly contribute to Alzheimer's Disease and hypothesizing most significant variables given the ADNI dataset
- Investigating roles of individual variables towards Alzheimer's disease in a patient

Personal Website

Dec 2021 – Present

- Developing a portfolio website to include personal information, resume, and achievements with a user-friendly interface
- Utilizing HTML, CSS, and JavaScript to design a website to be accessed with <http://people.engr.tamu.edu/mahirah.samah>

Supplemental Instruction (SI) Leader, Texas A&M Academic Success Center

Aug 2020 – May 2021

- Facilitated academic assistance to college freshmen during weekly sessions to explain convoluted physics concepts
- Formulated effective communication devices and collaborative learning methods
- Orchestrated sessions 3 times each week to an average class size of 15 students every session
- Voted outstanding SI Leader and featured on the TAMU ASC Instagram page

SEC Directed Internship, Texas A&M Student Engineers' Council

Jun 2021 – Aug 2021

- Assisted in a team of four to formulate a business plan for given prompt, The Connected Vet
- Employed financing and industrial skills from weekly meetings with professors to come up with a feasible and marketable product
- Refined current veterinary medicine practices during COVID-19 by proposing electronic solutions

School Projects, Texas A&M University

Jan 2021 - Present

- Created a Linux shell
- Designed an ALU and CPU
- Built a machine compiler and assembler with C++
- Constructed several client-server mechanisms using numerous IPC methods, threading, and synchronization on Linux
- Composed a C++ HTTP client