

Mostak Ahmed

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CAREER OBJECTIVE SUMMARY

Recent graduate seeking full time role in the Software Engineering/Development field. Hard working and motivated student with experience working in an Agile Scrum development environment and Product Design.

EDUCATION

Texas A&M University College Station, TX

Bachelor of Science in Computer Engineering and Electrical Engineering (CEEN)

Overall GPA: 3.066/4.0

Minor in Applied Mathematics

Graduation: May 2021

TECHNICAL STRENGTHS

Languages

C++, HTML, CSS, MATLAB/Octave, Verilog, LaTeX,

Operating Systems and Development Tools

Linux, Windows, GitHub/Git, Cadence, Vivado

COURSE WORK

- CSCE 121-Intro to Programming Design Concepts, 222-Discrete Structures for Computing, 221-Data Structures and Algorithms, 313-Intro to Computer Systems, 315-Programming Studio, 465-Computer and Network Security, 411-Design and Analysis of Algorithms, 420-Artificial Intelligence.
- ECEN 248-Intro to Digital System Design, 214-Electrical Circuit Theory, 314-Signals and Systems, 325-Electronics, 350-Computer Architecture and Design, 449-Microprocessor System Design, 454-Digital Integrated Circuit Design, 434-Optimization for ECEN.

PROJECTS

Artificial Intelligence KB Programs

April 2021

Implemented C++ programs that did logical proofs using algorithms such as resolution refutation and DPLL. Additionally wrote the knowledge base of popular problems such as the Australian map coloring problem, Sammy's Sports Shop, and Wumpus World to be used with the algorithms.

Computer and Network Security - Phishing Dashboard

November 2020

Developed a web application that stores, categorizes, and displays reported phishing email metadata using a python graphing library. Goal was to have a centralized location of reported phishing email metadata to be used by company cybersecurity teams for training, educational purposes, and risk mitigation.

Programming Studio Final Project

April 2020

Coordinated with a team of 5 to develop a web application that served as a central inbox for multiple email accounts while working in an Agile Scrum environment (user stories, sprint planning/retrospective). Focused primarily on the front end of the web application using HTML, CSS, and JavaScript to build the landing page and structure for the central inbox.

WORK/LEADERSHIP EXPERIENCE

Senior Capstone — Texas A&M University

Jan 2021 - May 2021

Smart Mask

- Designed and implemented a smart mask prototype to combat communication issues with wearing masks.
- Using a micro controller circuit built a LED grid that mimics a person's facial movements when speaking. Additionally, implemented a voice amplification circuit to amplify a user's voice when wearing the mask.
- Led initial system design and setup, project timeline planning, and resource management to fully design and build the smart mask prototype within the time limit.

Student Engineers' Council Directed Internship — Texas A&M University

June 2020 - August 2020

Product Design and Marketing

- Worked in a team of 5 to develop a solution to the current rise of package theft. Developed a solution by incorporating feasibility and design manufacturability into the solution.
- Weekly team meetings involve discussing and revising the solution based on feedback from team mentors.