

Mostofa Adib Shakib

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Education

Texas Tech University

DUAL BACHELOR OF SCIENCE DEGREE IN **COMPUTER SCIENCE & MATHEMATICS**, ADVANCED GPA: 3.9/4.0

- Minor: **Electrical Engineering**

Lubbock, TX

August 2017 - May 2021

Awards & Skills

- Princeton University Hackathon Winner
- Winner of the best web design award at Rice University Hackathon
- Top **2%** hacker in CalHacks at UC Berkeley out of 4500 participants

Technical Python, C++, Java, JavaScript, TypeScript, HTML, CSS, React, SQL, NoSQL, MongoDB, AWS, Heroku, Selenium, Linux

Work Experience

CDK Global

SOFTWARE ENGINEER INTERN

Austin, TX

June 2020 - December 2020

- Designed and implemented a UI dashboard that shows the API Usage Per Dealer report used to bill all **40,000** of CDK's worldwide customers
- Created a microservice that automatically sends an email to the operations team every time a customer publishes an app in the platform
- Wrote **TypeScript** using clean code principles to count unique organizations with approved users who logged into the platform in x days
- Reduced page load time by **30%** using an asynchronous method that calls an API in batches of **100**
- Implemented **Oauth2** authorization code flow for a company hackathon project and deployed the web application using **AWS S3** bucket

Group Nire

SOFTWARE DESIGN ENGINEER INTERN

Lubbock, TX

September 2018 - December 2018

- Horizontally partitioned a **MongoDB** database to evenly distribute data and enhance database performance by **40%**
- Built a **JavaScript** program that calls different IoT devices collect their data, inserts them to a database, and backs up the database periodically
- Wrote software design documentation and migrated existing development environment from Windows to Linux

Grameen Telecom Trust

SOFTWARE ENGINEER INTERN

Dhaka, Bangladesh

June 2018 - August 2018

- Replaced manual staff attendance tracking system with an automated system written in **PHP & MySQL** to reduce human labor by **480 hours**
- Reduced human errors by performing automated test cases in a Web application using **Python** and **Selenium's** Chrome web driver

Trio Student Support Services, Texas Tech University

PEER TUTOR

Lubbock, TX

May 2019 - February 2020

- Mentored over **150 students** and held study sessions to help students with Engineering & Mathematics courses
- Provided assistance with test-taking strategies and study skills for difficult Mathematics and Computer Science courses.

Hackathons & Projects

Auto Flow

HACKPRINCETON - PRINCETON UNIVERSITY

Princeton, NJ

November 2019

- Showcased the project in-front of **20 judges** and **400** participating contestants
- Constructed a NLP parser in **Python** that breaks down a text using conditional keyword matching such as looking for if..then..else syntax
- Devised a tree module that takes relevant instructions and builds a parse tree that contains instructions, targets, and message
- Created an API module that does a depth-first parse tree and calls Stdlib's APIs to perform the required tasks

Portal

HACKRICE - RICE UNIVERSITY

Houston, TX

August 2018

- Conceptualized & designed the front-end of a user-friendly Vanilla **JavaScript** website that describes a pet identification system
- Implemented the back-end routes using **Node.js**, deployed the website on **Heroku** and hosted the website on domain.com

Entrepreneurship & Leadership Experience

RaiderHacks

CO-FOUNDER & PRESIDENT

Lubbock, TX

January 2020 - Present

- Created Texas Tech University's first competitive programming-focused student organization that competes at programming competitions
- Grew the organization to become the largest Computer Science student organization at Texas Tech University with more than **140** members
- Authored the constitution, opened a bank account, and led weekly officers' stand-up and biweekly retrospectives

Kurt's Steam Store, Steam Community Market

FOUNDER & CEO

Dhaka, Bangladesh

January, 2014 - July 2017

- Traded in-game virtual items with an initial **\$5 investment** and made over **\$30000 in profit** with a **6000%** return on investment
- Led all marketing effort managing a Facebook page with over **900 clients**, ad campaigns, and published blogs on several external websites