

# Rasheek Huq

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## Education

University of Texas at Austin | Bachelor of Science in Computer Science

Aug 2019 – Dec 2024

## Relevant Coursework

Data Structures, Algorithms, Computer Architecture, Computer Systems/Operating Systems, Compilers, Object Oriented Programming, Programming for Performance, Machine Learning, Network Security/Privacy, Modern Web Applications

## Core Skills

C++, C, JavaScript, React.js, C#, ASP.NET Core, Git/Github, SQL Server, CI/CD (w/ Gitlab), Python, Java, Object Oriented Programming, REST APIs, Node.js, Unix Command Line Tools, Docker, HTML5, CSS, Full Stack Web Development

## Programming Projects

PlusStat Web App | C#, ASP.NET, SQL Server | <https://github.com/hawk-r19/PlusStat>

Dec 2024 - Present

- Developing a full-stack web app that displays various stats for professional athletes in a clean and concise manner.
- Uses the ASP.NET Core framework for the back-end, and SQL Server for the database. The front-end will use React.js to display dynamic webpages and send queries to the back-end API.

Darwin/Life Simulators | C++, SOLID Principles, Unit Testing, CI/CD

Nov 2024 – Dec 2024

<https://gitlab.com/cs-371p-object-oriented-programming/cs371p-darwin> | <https://gitlab.com/tonyn10/cs371p-life>

- Pair-programming projects that gave extensive experience in implementing modular and modifiable object oriented design. They involved creating simulators for a set of creatures that behaved uniquely.
- Had to carefully design how classes communicated (no getters/setters allowed), cementing practical knowledge of how to best use inheritance and encapsulation in our designs.
- Automated unit testing, a CI/CD pipeline, and proper documentation were also developed concurrently.

Attacks on C and JavaScript Programs | Linux Command Line, Assembly, C, JavaScript

Jan 2024 – May 2024

- For the Network Security Class, built and tested several attacks that targeted vulnerabilities in the C standard library and JavaScript engines, as well as mitigation strategies to prevent these types of attacks.
- Final project was to write an attack exploiting a real bug in Firefox's SpiderMonkey JavaScript engine that would allow an attacker to inject dangerous code and run it directly on someone's machine.

Risk-Assessing Machine Learning Model | Python, Pandas, Group Management

Nov 2023

- As a team of 4, we created a machine learning model to predict whether a patient would die, given some set of symptoms. Used a dataset with ~1 million records of different people with a total of 22 medical conditions.
- Tuned several types of models to find the best one. The final model resulted in ~90% accuracy with high recall.
- Great experience of working with a development team to find the best solution to our problem.

Weather Portal | Flask, SQLite, REST API, HTTP, Authentication, AWS

Aug 2023 – Dec 2023

- Designed and deployed a weather portal app on AWS to learn about and create REST APIs, SQL databases, ETL processes, the HTTP protocol, and user authentication.
- API handled storing and loading user data in a database, while the ETL process automatically requested data from a server and processed/loaded it into a local database.
- Used OAuth 2.0 to allow users to sign in with their Google account.

## Professional Experience

Manager/Server | *Madam Mam's* – 510 W 26th St, Austin, TX 78705

Aug 2020 – Aug 2021

- Managed a small team of servers to efficiently satisfy customers and ensure all restaurant operations ran smoothly, from handling disputes to optimizing the chain of operations for cooking and serving dishes in a timely manner.
- Learned how to identify the team's greatest needs at any given time and support them effectively.

MMA Instructor | *Impact Martial Arts*

May 2014 – Aug 2016

- Taught Karate, Muay Thai, Aikido, Jiu Jitsu, and Krav Maga for kids/adults ages 3-50+. Learned how to communicate and teach effectively for all kinds of personalities and age groups.