

# Muin Momin

<http://muin.me>  
momin.muin@gmail.com | 832.491.2023

## EDUCATION

### TEXAS A&M UNIVERSITY

B.S. IN COMPUTER SCIENCE  
May 2019 | College Station, TX  
Business Minor  
Cum. GPA: 4.0/4.0

### HARVARD BUSINESS SCHOOL

Summer 2018 | Cambridge, MA  
Summer Venture in Management

## COURSEWORK

### UNDERGRADUATE

Data Structures & Algorithms (TA)  
Computer Systems  
Programming Languages  
Swift & iOS (CodePath University)  
Artificial Intelligence  
Parallel Computing  
Data Mining  
Analysis of Algorithms (Graduate Level)  
Information Retrieval

## SKILLS

### PROGRAMMING

Most experience:

Java • C++ • Python • C#

Worked in:

JavaScript • HTML • CSS • Haskell • Swift

Other:

Shell • Version Control (Git) • OpenCV •

Keras/TensorFlow • Unity •  $\LaTeX$  •

Deep Learning

## LINKS

Github:// [muinmomin](#)

LinkedIn:// [MuinMomin](#)

## ABOUT ME

*My goal is to leverage the power and reach of technology to make a global impact on the planet.*

## EXPERIENCE

### MICROSOFT | SOFTWARE ENGINEERING INTERN

Incubation Team • Summer 2018 • Redmond, WA

- Using computer vision to detect & classify humans + objects and determine relationships/ownership between them. C++, OpenCV.
- Facial recognition on HoloLens to display the recognized person's aggregated social media activity in augmented reality view. C#, Unity.

### MICROSOFT | SOFTWARE ENGINEER + PROGRAM MANAGER INTERN

Microsoft Edge Browser Team • Summer 2017, 2016 • Redmond, WA

- Conducted market share research to determine what feature to build and designed & implemented prototypes in C# for user experience studies.
- Developed 2 separate features for Microsoft Edge allowing users to quickly access their top sites through the jump-list and "snooze" tabs for later.
- Wrote multi-threaded code in C++/CX, and UI in XAML/C#.
- Designed, developed, and tested everything. All code was reviewed and pushed to production.

### RESEARCH | UNDERGRADUATE RESEARCHER

2017 - Current | Texas A&M University

- Working on optimizing g2o, a general purpose graph framework used in SLAM (simultaneous localization and mapping) algorithms.

### TAMUHACK | PRESIDENT

2017 - Current | Texas A&M University

- Organized largest hackathon at Texas A&M University with ~600 students and ~22 companies in attendance.
- Led a team of 14 and raised and managed a budget of \$60,000.

## PROJECTS

- DIY doorbell that uses **computer vision** to automatically open the front door if the person lives in the house.
- Browser extension with **WebVR** that allows users to collect .glb files and create a VR world (Babylon.js).
- A complete **bike safety** system for riders with crash & SONAR blind spot detection, sleep prevention and a **wearable dashboard**.
- **iOS app** that uses **multipeer connectivity** to create a mesh network, allowing users to communicate without needing WiFi or cellular data connections.
- **RC car** with a live camera feed that can be **controlled from a website from anywhere in the world**.

## LEADERSHIP

2017-Current TAMUhack **President**

2016-2017 TACS (IEEE/ACM) **Officer**

2015-2016 **Vice President & Diversity** at Student Residence Hall

## AWARDS/OTHER

Texas A&M Leadership Scholarship

Grace Hopper Conference Scholarship (MSFT)

Honors CS Department Scholarship

Hackathon 1st Place

Undergrad Teaching Asst.

National AP Scholar