

Humad Syed

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Education

University of Massachusetts Amherst

BSc Computer Science, GPA: 3.4

Amherst, MA

Expected Graduation: Dec 2018

Relevant Coursework:

Web Programming, Databases, Networks, Operating Systems, Algorithms, Internet of Things.

Technical Skills

Languages: Java, Swift, JavaScript, SQL, C++.

Technologies: Nodejs, Git, Unix, Arduino, React.

Work Experience

Software Developer & Teaching Assistant, Intern

Horizons School of Technology

San Francisco, CA

May 2018 — Present

- Taught full-stack web development using Nodejs, React, and MongoDB to a group of 100+ students; conducted live demo sessions and had one-on-one interactions with students to help solve problems.
- Designed and developed an internal tool using Nodejs and React to track student interactions with instructors and provide day-to-day statistics to help instructors understand patterns in student learning.

iOS Developer

Center for Youth Engagement

Amherst, MA

Apr 2017 — Present

- Developed an educational science application for iOS using Swift with a team of 12 developers to meet the diverse needs of youth in correctional facilities, including those with learning disabilities.
- Improved database performance by up to 66% by writing efficient SQL queries to communicate with an SQLite database using the FMDatabase API; created indexes to speed up data retrieval.
- Designed and implemented a dynamic popover system using Protocols and UIKit to replace Apple's default popovers, allowing interactive content to be displayed on various parts of the screen.

Undergraduate Course Assistant

College of Information and Computer Sciences, UMass Amherst

Amherst, MA

Jan 2018 — May 2018

- Assisted professor with an Internet of Things (IoT) course by grading assignments, projects, and exams; helped students with assignments and Arduino-based projects during office hours.
- Identified race condition bugs in a resource-constrained Microcontroller unit (MCU) and wrote code in Arduino to fix it, preventing students from running into problems.

Personal Projects

Motivate Bot

JavaScript, Swift, XCode, Nodejs, MongoDB, Twilio, Heroku

bit.ly/2LyhhNS

May 2018 - Jun 2018

- Developed a bot using Nodejs to maintain a collection of subscribed users in MongoDB and send motivational text messages to them using Twilio; deployed bot on Heroku.
- Created a user interface for iOS using Swift and XCode to manage active users and monitor app usage.

Emotion-driven Video Sharing Platform

Python, JavaScript, SQL, Django, Affectiva, Google Charts

bit.ly/2sExoCf

Feb 2018 - Apr 2018

- Created a full-stack web application using Django to allow content creators to observe changes in user emotions as they view videos, equipping them with the insights necessary to produce better content.
- Utilized the Affectiva API and Google Charts API to track viewers' facial features to detect emotions and display them in real time; used a SQLite database to store user data.

Leadership Experience

Co-Founder and President

DubsTech, University of Washington

Seattle, WA

Oct 2015 — Aug 2016

- Increased accessibility to computer science education by organizing technical workshops related to software development open to everyone including those with no Computer Science background.
- Recruited 3 lecturers to teach web and mobile development to 100+ students.