

# HASSAN ALI

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## EDUCATION

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### University of Minnesota- Twin Cities

BS Computer Engineering *GPA: 3.18*

Minneapolis, Minnesota

Sep 2017 | May 2020

### Normandale Community College

AS Engineering Broadfield *High Honors*

Bloomington, Minnesota

Aug 2014 | May 2017

## PROFESSIONAL EXPERIENCE

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### Snap Inc.

*Software Engineer Intern*

Santa Monica, California

May 2019 | Aug 2019

- Worked with Creative Tools team on Android
- Developed time-based logic to display Snapsterpiece Discard Dialog
  - Prevents the user from discarding a Snap they have been editing by mistake
- Integrated Snapcode Sticker feature
  - Gives users an easy way to add their Snapcodes to Snaps
  - Viewers of public stories can easily add the relevant person with a single tap

### IPG Photonics

*Applications Engineer Intern*

Minneapolis, Minnesota

May 2018 | Aug 2018

- Expedited the planning, design, and installation of laser machinery and equipment in an industrial environment, using knowledge of engineering and programming as well as specialized instruments and computers
- Designed and integrated a wet cut pump used on Versa stent cutting system. Increased total system efficiency by 35%

## PROJECTS

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### Not Reddit *HTML, CSS, FLASK, SQL*

- Directed a group of three in the design and implementation of a social media website
- Utilizes four main views: main feed, comment section, post section, profile section.
- Implemented SQL database with four tables to maintain persistent data
- TL;DR - Should work like any social media website, but more like old.reddit.com

### Bluetooth Controlled Alarm Clock *C, UART Bluetooth Controller*

- Implemented and designed a wireless accessible alarm clock displayed on an LCD
- Displays a real time clock with two alarms and accurate live temperature readings
- Settings can be changed through UART module on any mobile device

### Multi-Process Chat Application *C, LINUX*

- Created and designed a centralized chat application
- Consists of one main main process and several child processes, which communicate with its own user process
- The central chat application supports both private peer-to-peer and group chat features

### Analog to Digital Strain Gauge *C, MATLAB*

- Led a team of three in the construction of an instrumentation amplifier analog to digital converter
- Boosted input differential signal then converted to digital via a 16 bit A/D converter
- Measurements from strain gauge shown on MATLAB and on LCD with a decimal display to 50  $\mu V$  accuracy

## LEADERSHIP AND ACHIEVEMENTS

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### National Society of Black Engineers

*Executive Board Member- Vice President*

Minneapolis, MN

Aug 2019 | Present

- Promote public awareness of engineering and the opportunities for Blacks and other minorities in that profession

### Jumpstart

*Student Ambassador*

Minneapolis, MN

Aug 2018 | Aug 2019

- Familiarize Jumpstart's platform and recruit students from University of Minnesota to use the app for a convenient way to get connected with companies & startups

## SKILLS

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Python, RxKotlin, C, C++, Java, JavaScript, HTML, CSS, SQL, Flask