Hassan Ali

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EDUCATION

University of Minnesota- Twin Cities · Minneapolis, Minnesota
BS Computer Engineering *GPA: 3.18* · Sep 2017 | May 2020

Normandale Community College · Bloomington, Minnesota
AS Engineering Broadfield *High Honors* · Aug 2014 | May 2017

PROFESSIONAL EXPERIENCE

Snap Inc. · Santa Monica, California
Software Engineer Intern · 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 · Minneapolis, Minnesota
Applications Engineer Intern · 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

Not Reddit *Python, HTML, SQL, FLASK*
- 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 μV accuracy

LEADERSHIP AND ACHIEVEMENTS

National Society of Black Engineers · Minneapolis, MN
Executive Board Member- Vice President · Aug 2019 | Present
- Promote public awareness of engineering and the opportunities for Blacks and other minorities in that profession

Jumpstart · Minneapolis, MN
Student Ambassador · 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

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