

# UMA ABU

## EDUCATION

Iowa State University, Ames, Iowa  
**B.S - Software Engineering**  
Graduation – **May 2020**  
**GPA – 3.37 / 4.00**

## CONTACT

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## NOTABLE SKILLS

**Languages:** Java, C/C++,  
JavaScript, TypeScript, SQL, HTML,  
CSS, Dart

### Frameworks/Databases/Libraries:

Angular, AWS, Docker, React,  
React Native, Git, Shell/Bash  
Scripting, MongoDB, MySQL,  
Flutter, Firebase, Android Studio,  
WordPress.

**Operating Systems:** Linux  
(Fedora), MacOS, Windows

## LEADERSHIP & AWARDS

- **Resident Assistant- Department of Residence, Iowa State**  
(Fall 2017 – Present)
- **College of Engineering Deans List:** Fall 2016, Spring 2017, Fall 2017, Fall 2018, Spring 2019.
- **Senator - National Society of Black Engineers (NSBE)**  
(Fall 2017 – Spring 2018)
- **Telecommunications Chair - African Students Association**  
(Fall 2017 – Spring 2018)
- **ASA Outstanding student of the year Award** – Fall 2016
- **Global Academic Award - Iowa State University** – Fall 2017, Spring 2017, Fall 2018.

## OBJECTIVE

Seeking a **full time Software Engineering position** starting May 2020.

## WORK EXPERIENCE

### SPS Commerce (Minneapolis, MN) - Software Engineering Intern

June 2019 – August 2019 - **(Java, AWS, Docker, GitHub)**

- Implemented architectural changes to a Java application.
- Collaborated with the Cloud OPS team to integrate AWS components to the Java application.
- Migrated the application deployment pattern to a container-based deployment working with the SRE Team.
- Integrated analytics monitoring on the AWS components and the Java application.

### Rockwell Automation (Milwaukee, WI) - Software Engineering Intern

May 2018 – August 2018 - **(Angular, NodeJS, MongoDB, GitHub)**

- Developed Setup wizards' software on industrial drives.
- Visualized data from the drives to user interface for analysis.
- Created a MEAN application to keep track of over 60 industrial drives and controllers used by engineers for development.

### Department of Agricultural and Biosystems Engineering (Ames, Iowa)

#### – Research Assistant

September 2018 – May 2019 – **(C/C++, Linux OS)**

- Created C/C++ scripts to detect acoustic waves signatures based on frequency.
- Modified C/C++ scripts to filter and analyze large sets of data.

### Department of Civil, Construction and Environmental Engineering (Ames, Iowa) – Web Developer

September 2017 – May 2018 - **(WordPress, UI Design/Experience)**

- Redesigned the department's web pages using Bootstrap making it dynamic and responsive.
- Created dynamic web pages from wire frames and reorganized contents of the old websites for easy accessibility.

### Natural Resource Ecology Management (NREM) (Ames, Iowa) - Software Development Intern

May 2017 – August 2017- **(JavaScript, HTML, CSS, GitHub)**

- Designed user interface to enhance user experience for a web-based teaching application – PEWI.
- Developed analytical features to enhance user experience.
- Collaborated with a team of developers to deploy PEWI v3.0

## PERSONAL PROJECTS

### Mouve (Mobile App Dev, Flutter, Firebase) – Summer 2018 - Present

- Developing a social media app for events and activities.

### HACKISU – Android App Development (Android, Firebase) – Fall 2017

- Utilized Firebase set up database to store user information for the Holding Hand – an android app for automated emergency notice.

### Engineering the Future – NSBE@ISU

- Volunteer at Ames Middle School to promote STEM programs through educational activities throughout the year.