UMA ABU

EDUCATION

Iowa State University, Ames, Iowa
Bachelor of Science in **Software Engineering**
Graduation – **May 2020**
GPA – 3.31/4.00

CONTACT

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SKILLS

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

Frameworks/Databases/Libraries:
Angular, React, React Native, SpringBoot, ORM, REST API, Git, Shell/Bash Scripting, Node.js, MongoDB, Neo4j, 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.
- **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 to improve my practical programming skills and expand my professional experience working with real-world application of software engineering through **an internship available Summer 2019.**

WORK EXPERIENCE

Rockwell Automation (Milwaukee, WI) - Software Engineering Intern
*May 2018 – August 2018 - (**Angular, NodeJS, MongoDB, Git**)*
- Developed setup wizards' software on industrial drives.
- Migrated data from setup wizards to drives as setup parameters.
- Visualized data from drives to interface module for easy comprehension and understanding.
- Created a MEAN application to keep track of over 60 industrial drives and controllers used by engineers for testing purposes.

Department of Agricultural and Biosystems Engineering (Ames, Iowa) – Research Assistant
*September 2018 – Present – (**C/C++, Linux OS**)*
- Modifying C/C++ scripts to filter and analyze large sets of data.
- Creating C/C++ scripts to detect acoustic waves signatures based on frequency.

Department of Civil, Construction and Environmental Engineering (Ames, Iowa) – Web Developer
*September 2017 – May 2018 - (**WordPress, UI Design/Experience**)*
- Redesigned 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, Git**)*
- Designed user interface to enhance user experience for a web-based teaching application – PEWI.
- Developed features to enhance user experience.
- Collaborated with a team of developers to release new program used as a teaching tool at Iowa State University.

PROJECTS

Mouve (Flutter, React Native, Firebase) – Summer 2018 - Present
- Developing a social media app for events and activities.

CSGS Hack – ISU Chatbot (Python, Web-Scraping) – Spring 2018
- Wrote python scripts that scraped information from Iowa State University web pages for ISU Chatbot – A virtual assistant.

HACKISU – Android App Development (Java, Android Studio, Firebase, Git) – Fall 2017
- Used firebase set up database to store user information for the Holding Hand – A simple quick and effective app for automated emergency notice.

Engineering the Future – NSBE@ISU
- Volunteer at Ames middle school to promote STEM through educational activities throughout the year.