

Bushra Bonkiye

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Education

The Ohio State University, Columbus, OH Expected Graduation: December 2022
B.S. Electrical and Computer Engineering, Computer Engineering Program Overall GPA: 3.34
Scholarships: I Know I Can Founders scholarship, Provost Scholarship

Internship Experience

GE Aviation – *Aviation Systems Engineering Intern* September 2021-December 2021
Grand Rapids, MI

- Supported Avionics Systems Simulation & Tools team in finding and fixing bugs in the numerous software products that are used to provide flight simulation.
- Wrote C++ software that will translate communication of avionics system components through the various avionics' protocols such as the Arinc 664, Arinc 825, and M1553 among others into a PCAPNG format that can be understood by users through Wireshark.
- Used C# to test software for each of the protocols to make sure the communication data is correctly written into the PCAPNG format.

USAA – *IT/Software Engineering intern* May 2021-July 2021
San Antonio, TX

- Assisted team in instilling Google's site reliability engineering into our development process
- Added functionality to a React web app to make it more user-friendly
- Fixed multiple bugs in a java web app that were causing database issues

Skills & Qualifications

- **Programming:** Proficient in java, android, JavaScript, HTML, CSS; basic proficiency with C#, Ruby, Rails, React; basic understanding of C, C++, Matlab, SQLite, MongoDB, Bootstrap
- **Current relevant coursework:** Project: Design, Development, and Documentation of Web Applications
- **Previous Coursework:** Software Components, Software Development and Design, Intro to Microcontroller-based systems, Advanced C Programming, Intro to Analog Systems & Circuits, Introduction to Database Systems, technical writing & presentation, Introduction to Operating Systems

Projects

Bookfly

- Built student-to-student book selling app as part of a member of Design Develop Deploy club
- Added backend to app so that it integrates with the website version of the platform.

Peer Evaluation Tool (Final team project for web development course)

- Built a peer evaluation web application to allow class administrators (teachers, professors, etc.) to make surveys for students to rate their classmates using Ruby on Rails.
- Added secure login functionality using the BCrypt gem to protect user data
- Built into the application different interfaces for the class admin and their students.
- Website deployed to <http://mysterious-dawn-27194.herokuapp.com/>