# RYAN BENDER

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Secret Security Clearance

## EDUCATION

**Lynchburg, VA**                        **Liberty University**                        **Aug 2018 - May 2020**

- Major: IT: Data and Information Security, B.S. (GPA 3.69)
- Programming Coursework: Networks, Operating Systems, Databases, Java Language, Python Language, Computer-Human interaction, Web Architecture and Development
- Activities: ACM Programming Competition (Python, C++), Cyber Defense Club

## EMPLOYMENT

**Cyber Security/Software Developer, Intern**        **ARiA (R&D firm)**                        **May – August 2019**

ARiA (www.ariacoustics.com): Applied Research in Underwater Acoustics

- Worked with team to develop a program to accept, compile, and plot submarine sensor data points.
- Developed bash scripts to improve efficiency of company security audit procedures.
- <u>Leveraged Knowledge</u> in Git, Python language, C++ language, Bash scripting, VS Code, Object-Oriented programming, and Team collaboration.

## SOFTWARE PROJECTS

**Personal Website:** *www.ryanbender.tech* (for additional information and full project solutions)

**Rent Helper**

- Developed and designed an application to improve the efficiency of paying housing utility bills.
- Integrated MongoDB for database communication.
- <u>Utilized</u>: Python

**Programming Competition Examples**

- **Bit Rotation**
  - Challenge: Develop algorithm to rotate bits of an integer and output new integer.
  - <u>Leveraged Knowledge</u> in binary number transformation and mutilation.
- **Minesweeper**
  - Challenge: Develop algorithm to show number of bombs around bomb locations.
  - <u>Leveraged Knowledge</u> in grids, tuples, arrays, and array slicing.
- **Columnar Cipher**
  - Develop program to encrypt or decrypt message with the columnar cipher encryption method.
  - <u>Leveraged Knowledge</u> in encryption and decryption algorithms and array splicing

## SKILLS

**Software:** (*proficient*): Python, C#, Ruby, Git, HTML/CSS (*familiar*): Java, C++, Matlab, JavaScript

**Operating Systems:** (*proficient*): Ubuntu Linux, Red hat Linux, Unix, Windows (*familiar*): MacOS X, Arch Linux