

# RYAN BENDER

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Secret Security Clearance

## EDUCATION

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<b>Lynchburg, VA</b>	<b>Liberty University</b>	<b>Aug 2018 - May 2020</b>
<ul style="list-style-type: none"><li>Major: IT: Data and Information Security, B.S. (GPA 3.76)</li><li>Programming Coursework: Networks, Operating Systems, Databases, Java Language, Python Language, Computer-Human interaction, Web Architecture and Development</li><li>Activities: ACM Programming Competition, Cyber Defense Club</li></ul>		

## EMPLOYMENT

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<b>Cyber Security/Software Developer, Intern</b>	<b>ARiA (R&amp;D firm)</b>	<b>May – August 2019</b>
ARiA ( <a href="http://www.ariacoustics.com">www.ariacoustics.com</a> ): Applied Research in Underwater Acoustics		
<ul style="list-style-type: none"><li>Worked with team to develop a program to accept, compile, and plot submarine sensor data points.</li><li>Developed bash scripts to improve efficiency of company security audit procedures.</li><li><u>Leveraged Knowledge</u> in Git, Python language, C++ language, Bash scripting, VS Code, Object-Oriented programming, and Team collaboration.</li></ul>		

## SOFTWARE PROJECTS

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**Personal Website:** [www.ryanbender.tech](http://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.
- Utilized: Python

### Programming Competition Examples

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

## SKILLS

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

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