

# Alexander Castro

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## EXPERIENCE:

### **Discrete Mathematics Teaching Assistant    2019-2020**

- Held weekly tutor sessions and office hours for Discrete Mathematics I
- Worked Closely with professor to organize and schedule after hours student help
- Covered topics in propositional logic, boolean algebra, number theory, proof by induction, etc.

### **Software Developer Intern, Virginia ABC    Summer 2019**

- Collaborated with a Project Manger and Business Analyst in an Agile development environment
- Developed Direct Deposit and Wage Offer Letter modules for the backend website
- Developed and utilized MySQL queries for dynamic webpage content
- Implemented secure encryption and authentication protocol for bank account numbers
- Deployed several projects to an Oracle Web-logic web server using Apache Maven for building
- Developed automated emailing jobs using dynamic webpage content

## EDUCATION:

### **James Madison University, Harrisonburg VA    2017- present**

B.S. in Computer Science    2021  
Minor in Computer Information Systems    2021

## PERSONAL PROJECTS:

### **Kerberos    <https://github.com/castroaj/Kerberos-AC.git>**

- Three Tier security protocol used for authentication of username and password at login. Uses an external Authentication server and Ticket Granting server to provide several layers of protection. Uses a SQLite database to house user information as well as shared information inside of Kerberos. (Java)

### **NetCrypt    <https://github.com/castroaj/Netcrypt>**

- Secure FTP Client that allows user to encrypt and digitally sign any file and send it to a specified IP and Port #. (Java)

### **Document Analyzer    <https://github.com/castroaj/DocumentAnalyzer.git>**

- GUI program that allows user index out the contents of a .txt file for word frequency for analysis and searching. It provides frequency ranking, and line context for results. (Java, Swing GUI)

## TECHNICAL SKILLS:

**Languages:** Java, C, Python, SQL, JavaScript, Ruby, HTML

**Technologies:** Linux, Bash Shell Script, Apache/Oracle Web logic Server, SQLite, Eclipse

**Concepts:** Information Security, Pen Testing, Networking, Concurrency, Data Structures