

# Jacob Shade

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## EMPLOYMENT

<i>Software Consulting</i>	<i>Arslan Fleet</i>	<i>Jan 2023-Present</i>
<ul style="list-style-type: none"><li>• Developed a business dashboard utilizing a Golang backend with a React front end, providing the client with a real-time data visualization and analysis of critical business metrics</li><li>• Built a Discord automation bot that seamlessly connects to the Google Sheets API, enabling the client to automate data entry and streamline their workflows</li><li>• Conducted in-depth analysis and assessment of client's existing software infrastructure, identified areas for improvement, and proposed effective solutions that increase efficiency and productivity.</li></ul>		
<i>Software Engineer, Intern</i>	<i>Lion Federal</i>	<i>Spring 2019</i>
<ul style="list-style-type: none"><li>• Developed a web UI test automation framework in Ruby and Selenium</li><li>• Created an English-like scripting development language using regular expressions</li><li>• Maintained and updated the Lion Federal website on a regular basis using HTML, CSS, and JavaScript</li></ul>		

## EDUCATION

<i>Fairfax, VA</i>	<i>George Mason University</i>	<i>Dec 2022</i>
<ul style="list-style-type: none"><li>• Bachelor of Science in Computer Science, Dec 2022</li><li>• Relevant Coursework: Database Concepts, Data Mining, Software Testing/Maintenance, Object-Oriented Software Design, Data Structures, Analysis of Algorithms</li></ul>		

## TECHNICAL EXPERIENCE

### Projects

<i>Coworking Web App</i>	<i>2022-Present</i>
<ul style="list-style-type: none"><li>• Built a full-stack web application that allows users to share video and text in a chat room</li><li>• Implemented authentication REST API using Golang to connect the React client to a MySQL database</li><li>• Utilized WebSockets to pass chat messages and WebRTC for video capabilities</li></ul>	
<i>Fake News Classification</i>	<i>Fall 2020</i>
<ul style="list-style-type: none"><li>• Developed a machine learning application used to detect the legitimacy of news articles</li><li>• Trained the dataset with k-nearest neighbors, decision trees, and random forest algorithms</li><li>• Improved accuracy through lemmatization, removal of stop words, and a TF-IDF representation</li></ul>	
<i>Netflix Database</i>	<i>Spring 2020</i>
<ul style="list-style-type: none"><li>• Designed and built a database to store users, movies, actors/actresses, profiles, and ratings</li><li>• Created an entity relation diagram and schema to capture system requirements</li><li>• Implemented a CLI program in JDBC to query the Oracle DBMS</li></ul>	

## LEADERSHIP EXPERIENCE

<i>Program Director, Coach</i>	<i>Lake Braddock HS Ultimate (Frisbee)</i>	<i>Fall 2019 - Present</i>
<ul style="list-style-type: none"><li>• Managed in-game strategy to utilizing the strengths of each player</li><li>• Cultivated a positive and supportive team culture</li><li>• Scheduled and managed 4 teams with 70 players, 8 coaches, and 3 parent volunteers</li></ul>		
<i>President, Captain</i>	<i>GMU Ultimate Frisbee Club</i>	<i>Fall 2018 – Spring 2022</i>
<ul style="list-style-type: none"><li>• Led focused practices to maximize the potential of each player</li><li>• Hosted tournaments with 750+ participants and raised over \$7,000 annually</li><li>• Built strong communication skills through direct contact with Club Sports and e-board members</li></ul>		

## LANGUAGES & TECHNOLOGIES

Python, Java, Go, SQL, C, JavaScript, React, Express, Node, Ruby, HTML, CSS, Git, GitHub

## CERTIFICATIONS

CompTIA A+