

JACOB SHADE

☎ (540) 818-9582 ✉ shadejacob@gmail.com [in linkedin.com/in/jacobshade](https://www.linkedin.com/in/jacobshade) github.com/jacob-shade jacobshade.com

Education

George Mason University

Bachelor of Computer Science

Dec 2024

Fairfax, VA

- Courses: Software Engineering, Applied Machine Learning, Data Structures, Analysis of Algorithms, Computer Architecture, Database Concepts, Object-Oriented Design, Computer Networking, Software Testing/Maintenance

Work Experience

Fleetwire

Software Engineer, Intern

Aug 2023 – Aug 2024

Denver, CO

- Engineered a data visualization and **analysis dashboard** for a fleet management business, using **Vue**, **Laravel**, and **MySQL**, resulting in improved client insights and **\$10,000 in new monthly revenue**
- Integrated **GPS tracking management**, leveraging **API integrations** to connect hardware to the dashboard, resulting in **real-time location tracking** and enabling **remote lock/unlock** functionality for **improved vehicle safety**
- Improved productivity by building a **Discord bot** to automate workflows through **Google Sheets API** integration, resulting in **streamlined data entry**, **task management**, and **reduced manual processing time by 40%**

Lion Federal

Software Engineer, Intern

Dec 2019 – May 2020

Tysons, VA

- Built a cloud-based **test automation framework** in Ruby and Selenium that enabled parallel testing execution, **reducing test cycles by 75%** through AWS infrastructure integration
- Created an intuitive Gherkin-based scripting language that **automated test creation and documentation**, integrating with **Jira for streamlined bug tracking** and enabling **real-time email alerts for test failures**
- Implemented comprehensive **security testing features** for **automated vulnerability scans** (SQL injection, CSRF, XSS, DOS) and performance diagnostics across web servers, databases, and message brokers

Projects

Admin Dashboard | [Source Code](#)

React | Go | MySQL

- Developed a **full-stack web application** for admin organizational management, using **MySQL** for data storage, **Go Fiber** for a **RESTful API** backend, and **ReactJS** for the user interface, **reducing task completion time by 30%**
- Implemented a **secure authentication system** integrating **Google OAuth 2.0** with **session cookies**

Fake News Classification | [Report](#)

Pandas | NLTK | Python

- Implemented **machine learning** algorithms and **data processing** that classified the credibility of news articles

Netflix Database | [Source Code](#)

Java | SQL | Oracle DBMS

- Designed and implemented a scalable database system using an **entity-relationship diagram** and **schema** to manage users, movies, actors/actresses, ratings and developed a CLI program with JDBC for querying an **Oracle DBMS**.

Leadership Experience

LBUC | *Non-Profit Founder*

Aug 2019-Present

- Organized tournaments that attracted **750+ participants** and **raised over \$12,000 annually**, resulting in greater community engagement through strategic planning and volunteer coordination
- Increased **player participation** from **15 to 90 in five years**, driving growth and enhancing the club's reputation while building strong relationships with parents, community leaders, and local schools to promote youth involvement

Starbucks | *Shift Manager*

Mar 2023-Present

- Increased our **customer connection scores** from **32% to 63%** through targeted engagement strategies
- Provided **coaching** and **constructive feedback**, resulting in **increased employee performance** and **satisfaction**

Technical Skills

Languages: Go, Python, Java, C/C++, SQL, Typescript, Javascript, HTML/CSS, Ruby, PHP

Developer Tools: AWS, Postman, Git, Azure, Docker, Jira

Libraries/Frameworks: React, Node, MySQL, PostgreSQL, Express, Fiber, Next, Vue