Ariel Arison

Active Secret Security Clearance

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Software engineer with hands-on experience in full-stack development, strong problem-solving skills, and a passion for building efficient, scalable software solutions. Proficient in multiple programming languages and cloud technologies, with a collaborative mindset and commitment to agile methodologies. Eager to contribute technical expertise and continuous learning to innovative engineering teams.

SKILLS

Programming Languages & Frameworks
Java, Python, C, SQL, NoSQL, HTML, CSS, PHP, JavaScript

Databases & Query Tools
MySQL, NoSQL databases, Toad, Report Builder, SQL stored procedures, Ruby, MongoDB, Cassandra, Redis, Neo4j, MySQL Workbench, Oracle

Cloud & DevOps
AWS, Azure, Docker, Kubernetes, Jenkins, Maven

Development Tools & Environments
Git (GitHub, GitLab), VS Code, Eclipse, Terminal (macOS & Linux)

Project Management & Collaboration
Jira, Slack, Microsoft Teams, Gmail, Microsoft Excel, Microsoft Word

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer
Government Contractor — MassLight (Defense Technical Information Center)
June 2022 – August 2025
Held an **Active Secret Clearance** and worked in a **SCIF** environment while developing secure, cloud-based software solutions for the Department of Defense (DoD). As one of 3 developers on a 6-person cross-functional Agile team, I executed the full software development lifecycle to design and implement a web-based platform that standardized and validated R2 budget request documents—used by DoD agencies to request and justify billions in annual R&D funding before Congress.

Developed full-stack features leveraging **Java**, **JavaScript**, **HTML**, and **CSS**, while creating and optimizing complex **SQL** queries using **MySQL Workbench**. Managed application lifecycle and deployments across **Dev**, **Staging**, and **Production** environments using **Docker**, **Jenkins**, **Maven**, and **Kubernetes** on **Linux** systems. Automated routine processes with **Bash** scripting and maintained source control with **Git/GitLab**.

The cloud-hosted application, deployed on **AWS GovCloud** to meet DoD security requirements, introduced modular, validated forms with business-rule logic to improve data accuracy and consistency across multiple agencies. This solution streamlined submissions, minimized manual errors, and enabled downstream data analysis through structured **XML** output. The project's success led to a follow-on contract (CXE) to replicate the system for P40 procurement forms. Actively participated in Agile/Scrum ceremonies and collaborated across teams using **Jira**, **Slack**, **Gmail**, and **Outlook**.

Student Programmer
University of Mary Washington — Fredericksburg, Virginia

April 2021 - May 2022
Supported the University's Enterprise Application Services by maintaining and updating critical student records—including degrees, addresses, and enrollment data—within centralized databases. Developed and optimized complex **SQL** queries and reports using **TOAD** and **SQL** to meet administrative and stakeholder requirements.

Utilized **Python** scripts to automate data extraction and transformation tasks, improving efficiency and data accuracy. Managed and updated Java Archive (**JAR**) files as part of system integration and deployment efforts.

Effectively tracked and managed project tasks through **JIRA**, and collaborated with cross-functional teams using **SharePoint**, **Microsoft Teams**, and **Outlook** to ensure timely delivery and communication. Authored comprehensive technical documentation for over 15 projects, facilitating knowledge transfer and ongoing system maintenance.

Adhered to strict data security and privacy policies, ensuring compliance with University guidelines and federal regulations such as **FERPA** and **HIPAA**, responsibly handling sensitive and confidential information related to the University community.

EDUCATION
University of Mary Washington; Fredericksburg, Virginia
B.S in Computer Science, minor in Mathematics (May 2022)

RELEVANT COURSEWORK
Programming & Software Development
Computer Programming and Problem Solving, Software Development Tools, Object-Oriented Analysis and Design, Software Engineering

Systems & Architecture
Computer Systems and Architecture, Operating Systems and Systems Programming

Foundations & Theory
Theoretical Foundations of Computing, Data Structures and Algorithms

User Experience
Human-Computer Interaction

ACTIVITIES AND LEADERSHIP
President, DiverCS, University of Mary Washington
Promoted diversity and inclusion in the CS department through events and discussions.

Volunteer, Lloyd F. Moss Free Clinic
Managed data organization and documentation.

Member, Delta Alpha Pi Honor Society; Honors Program; Association for Computing Machinery

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AWARDS AND SCHOLARSHIPS
UMW Presidential Award; Lettie Pate Whitehead Scholarship; Chiles Scholarship; UMW General Scholarship; ACCESS College Foundation Scholarship