

# Joseph F. Dyer

joeydyer99@gmail.com

Vienna, VA 22180

540-687-0055

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**PROFILE** Full-Stack Developer with 4+ years of experience across front-end and back-end systems, focused on supporting Sponsors by evaluating emerging technologies and delivering innovative solutions to address their real-world challenges.

**EDUCATION** *B.S. in Computer Science, Virginia Polytechnic Institute and State University*  
GPA: 3.81 Sept, 2018 - May, 2021  
Honors: Summa Cum Laude, Phi Beta Kappa

**EXPERIENCE** *Intermediate Software Engineer, The MITRE Corporation* May, 2021-Present  
McLean, VA

- Led design and development of a 3 person team for an internal DevSecOps evaluation tool that informed a Sponsor's contract award decision.
- Built reusable web components to streamline front-end development and ensure compliance with federal design standards across a Sponsor's organization.
- Built full-stack MVP dashboards using Angular, AngularJS, Vue.js, Flask, and Express to demonstrate research capabilities and support Sponsor funding decisions.
- Used Pentaho Data Integration, Python, and SQL stored procedures to automate data analytics reporting, reducing manual effort and saving time for Sponsors.

*Teaching Assistant (DSA), Virginia Tech* Aug, 2020- May, 2021  
Blacksburg, VA

- Held office hours to explain complex algorithmic concepts and visually demonstrate advanced data structures to students.
- Assisted students in debugging and understanding challenging algorithm implementations through hands-on guidance.
- Evaluated student projects, focusing on algorithmic correctness, efficiency, and conceptual understanding.

*Software Engineering Intern, The MITRE Corporation* Summers 2018-2020  
McLean, VA

- Delivered software enhancements that enabled sponsor collaboration on new user-facing capabilities, earning recognition for efficiency and effectiveness. (2020)
- Independently delivered AWS-based ETL solutions and reusable tools that streamlined workflows and contributed technical insights to a whitepaper on Cloud vs. On-Premise vs. Hybrid analytics solutions. (2019)
- Led a team of interns in stress testing an operational tool using Python to generate performance metrics for a sponsor deliverable. (2018)

**SKILLS** **Programming Languages:** JavaScript, Python, SQL, Java, C++, C  
**Frameworks:** Angular, AngularJS, Vue.js, Express, Flask  
**Cloud & AWS Tools:** S3, Glue, SageMaker, Redshift, EC2, Lambda, Currently Pursuing Associate AWS Solutions Architect Certification  
**Databases:** PostgreSQL, Microsoft SQL Server, MySQL, Neo4j, MongoDB  
**Tools & Platforms:** Docker, Git, Kubernetes, Pentaho Data Integration