

David Null

Technical Program Manager & Software Engineer

davenull311@gmail.com (717) 512-6904 1827 English Ivy Lane, Knoxville, TN 37932



<https://www.linkedin.com/in/davenull/>



<https://github.com/davenull311>

Profile Summary

- Accomplished Technical Program Manager and Software Engineer with extensive experience leading cross-functional teams to deliver high-impact, data-driven solutions. Expertise in overseeing complex go-to-market technical projects, improving operational efficiency, and driving customer satisfaction. Skilled in managing complex technical programs that align business goals with technical execution in cloud architecture, data analytics, and go-to-market strategies. Adept at driving operational efficiency and ensuring successful product adoption in collaboration with sales, customer success, and operations teams.

Technical Skills

Programming Languages: Java, Python, JavaScript, PHP, C#, C++, Solidity, HTML, CSS

Frameworks & Libraries: React, ASP.NET, Node.js, Flask, jQuery, AJAX, PyTest, unittest, Bootstrap

Databases: SQL, PostgreSQL, Oracle, CosmosDB, ChromaDB

Dev Tools: GitHub, Jira, Bitbucket, Confluence, Azure DevOps, Azure Resource Manager, Postman, Docker

Cloud Platforms: Extensive experience managing cloud environments with AWS and Azure, similar to Redshift and Airflow. Proven ability to design and manage scalable cloud architectures and data pipelines.

Data Pipelines & Automation: Extensive experience in CI/CD pipelines and data automation (relevant for tools like Airflow).

Business Intelligence Tools: Skilled in Business Intelligence tools (Power BI, MicroStrategy) with a readiness to adapt to Tableau and Sigma for data analysis and reporting.

Security: Applied Zero Trust principles, implementing least privilege access, continuous monitoring, micro-segmentation

Certifications: Certified Scrum Master, SAFe Certified Product Owner/Product Manager (POPM), Lean Six Sigma

Professional Experience

FI Consulting Integration Engineer & Senior Consultant

Arlington, VA Jan. 2020 - Present

- Led go-to-market initiatives by aligning product development with business and market needs. Partnered with sales, customer success, and operations teams to ensure successful product adoption and long-term customer satisfaction, resulting in a 90% improvement in fraud detection accuracy and faster processing times.
- Led cloud architecture and integration for major government projects, blending technical expertise in backend engineering with a strategic product management approach, ensuring seamless component integration for real-time, consistent data delivery and aligning with overarching project goals.
- Drove product adoption by aligning development with market demands, increasing fraud detection by 90% and reducing data processing time by 75%.
- Managed and coordinated 5+ cross-functional teams (technical and business) including data engineers, product managers, and business analysts to deliver complex, scalable solutions. Led the development of the PPP Review solution under aggressive deadlines, delivering a highly accurate fraud detection system (90% increase in fraud detection) and reducing data processing time by 75%. Ensured the timely launch of the project, aligning with critical government deadlines for addressing fraud in federal loan programs.
- Increased project velocity by 30% through automation and improved cross-functional collaboration.
- Awarded 2021 Annual Values Award for Continuous Improvement in software solutions and processes.

Product & Project Management

- Developed go-to-market technical strategies, ensuring alignment between cloud solutions and client business goals, contributing to the successful deployment of fraud detection and compliance tools.
- Leveraged Certified Scrum Master and SAFe POPM certifications to guide teams in agile project management methodologies, ensuring timely delivery of high-quality, scalable solutions across multiple stakeholders.
- Enhanced customer satisfaction by leading cross-team collaboration between data engineers, analytics, and product managers, resulting in improved data integrity and reduced processing times.
- Conducted market analysis to drive the development of user-centered features that increased product usability, adoption, and alignment with customer needs.
- Authored influential whitepapers on advanced topics like Natural Language Processing ("Natural Language Processing for Text Analytics"), reinforcing the company's reputation as an industry thought leader and driving innovation in software solutions.

Software Engineering

- Led multi-team technical projects involving data engineers, analysts, and systems administrators, improving operational efficiency and ensuring quality project delivery. Worked closely with sales and customer success teams to ensure product solutions met business requirements and market goals.
- Coordinated cross-functional collaboration between engineering, analytics, and business teams to refine processes and enhance collaboration, resulting in increased project velocity and precision in delivery dates.
- Directed the PPP Review solution, analyzing 12M+ loans for fraud and compliance, achieving a 90% increase in fraud detection accuracy, 75% reduction in processing time, and 15% decrease in monthly costs.
- Conducted design sessions for the PPP Review solution, developing a robust architecture that ensured data integrity, high availability and scalability, and aligned technical architecture with business goals.
- Led technical security architecture discussions with federal clients for the PPP Review solution, explaining the use of Azure's security features to ensure data integrity and compliance, and regularly presented to federal IT management, articulating the overall security posture, risk management strategies, and compliance adherence of the solutions. Emphasized the benefits of adopting a holistic security framework.
- Managed and improved backend data engineering systems, leveraging flexible-server PostgreSQL databases, Azure DataFactory, Azure Databricks, and event-driven triggers for automation, leading to a 75% decrease in data processing time.
- Set up continuous monitoring and alerting for security, enabling proactive threat detection and response, and implemented security controls for compliance enforcement, data classification and protection.

American University

Washington, D.C

Manager of Tuition Benefits and Financials

Aug. 2016 - Sep. 2017

- Directed customer success initiatives for the university's educational benefits program, providing technical support, training, and process automation that enhanced user engagement and reduced manual workloads.
- Automated financial reporting, reducing costs by 25% and report generation time by 75%.
- Authored Business Intelligence reports and enhanced Excel scripts for the University's benefits accounts, significantly reducing quarterly report compilation time for 22 programs from one week to 2 days.

Digital Initiatives and Online Programs Coordinator

Jul. 2015 - Dec. 2015

- Constructed back-end reporting structures for two online master's programs, involving Business Intelligence reports for administrators and metrics reports for faculty, to monitor program evaluation and outcomes.
- Automated the delivery of these reports to relevant stakeholders at designated times, enhancing strategic decision-making, and seamlessly integrated a 4-term/year program with a 3-term/year University system, encompassing financial, scheduling, and academic aspects.

Benefits Operations Specialist

Apr. 2014 - Jul. 2015

- Led operations across cross-functional teams, including customer success and compliance offices, improving process efficiencies by automating reporting systems, reducing error rates from 20% to under 1%.
- Conducted thorough analysis of stakeholder needs and defined requirements, setting the foundation for a detailed roadmap to strategically steer the tuition benefits program.
- Optimized the allocation of educational benefits for 400+ employees, ensuring maximum benefit utilization while reducing processing time by 50%. Led the implementation of compliance initiatives, reducing overhead expenses by 25% and enhancing regulatory compliance by 90%.

US Marine Corps Corporal, Infantry Platoon Sergeant

Various Locations Jan. 2004 - Dec. 2011

- Coordinated logistics for a team of 60 personnel, managing resources including supplies and equipment valued at \$10 million, ensuring operational readiness and reducing logistical delays.
- Coordinated logistics, including engineers and supply personnel, for a combat outpost housing 40 US and over 20 Iraqi personnel in Fallujah while simultaneously managing ongoing security operations.

Education

Arizona State University MCS – Master of Computer Science

Tempe, AZ 2024-2026

Coursework: Data Processing at Scale, Knowledge Representation and Reasoning, Software Project, Process, and Quality Management, Advanced Software Analysis and Design, Software Verification, Validation, and Testing, Artificial Intelligence, Data Visualization, Engineering Blockchain Applications, Advanced Computer Network Security, Data Mining

University of Maryland Global Campus B.Sc. in Computer Science

Adelphi, MD 2017-2024

Coursework: Computer Systems and Architecture, Data Structures and Analysis, Relational Databases, Advanced Programming Languages, Compiler Theory and Design, Building Secure Web Applications.