

Marianne Dillard

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SUMMARY

Results-driven Professional Engineer with a background in full-stack development, database optimization, and API design. Strong expertise in Agile methodologies, project execution, and performance optimization, with a proven ability to lead cross-functional teams to deliver scalable solutions. Passionate about leveraging technical expertise to drive innovation, improve system efficiency, and create user-centric applications.

KEY STRENGTHS

- **Technical Skills:** Full-Stack Development, Performance Optimization, API Design, Database Optimization
- **Leadership & Collaboration:** Team Leadership, Cross-Functional Collaboration, Mentoring & Training, Stakeholder Communication
- **Problem Solving & Process Improvement:** Agile Development, Creative Problem-Solving, Data Analysis & Visualization

TECHNICAL PROFICIENCIES

- **Languages & Frameworks:** JavaScript (React, Node, Express), TypeScript, Python (Django, Flask), PHP (Laravel)
- **Web Technologies:** HTML, CSS (Bootstrap, Tailwind)
- **Databases:** PostgreSQL, MySQL, MongoDB (Mongoose)
- **Development Tools:** Linux (Bash), Docker, Git (GitHub, GitLab), CI/CD Pipelines
- **Testing & Optimization:** Unit Testing, Performance Tuning

PROFESSIONAL EXPERIENCE

Junior Software Engineer

August 2022 to Present

TakeLAN, Tampa, FL

- **Web Application Development:** Designed a scalable web application using React, TypeScript, and Django, boosting system efficiency and reducing load times by 40% through optimized front-end performance and query tuning.
- **API Development & Integration:** Developed a secure API using Node and MongoDB, enabling real-time data processing and improving reporting accuracy while cutting data retrieval time by 60%.
- **Database Optimization:** Improved database performance by restructuring SQL queries and refining indexing strategies, reducing query execution time by 50% and enhancing transaction efficiency.
- **Security & Authentication:** Implemented role-based authentication system using Laravel and Django, reducing unauthorized access attempts by 30% and strengthening overall data security.

Delivery Assurance Lead

January 2020 to April 2023

Florida Power & Light Company, Sanford, FL

- **System Architecture & Data Analytics:** Designed a reliability dashboard using SQL and Power BI, enabling real-time visibility and decision-making with drill-through capabilities and user-specific filtering – skills applicable to building data-driven software and designing user interfaces.
- **Database Optimization & Performance Monitoring:** Developed complex SQL queries to monitor outage data and compliance – transferable to optimizing systems for efficient data retrieval and performance.
- **Agile Project Execution & Risk Management:** Led 10+ annual programs, meeting all KPIs while managing a \$2M budget through applied Agile methodologies to optimize resource deployment – mirroring iterative software development practices.

- Full-Cycle Project Management & Scalability: Delivered \$5M+ in customer-impact projects, ensuring scope and timeline adherence – directly applicable to scoping, building, testing, and deploying scalable software solutions.
- Process Automation & System Optimization: Developed a Power BI dashboard with complex SQL queries, driving a 62% reduction in costs through improved resource visibility and decision-making, showcasing expertise in performance optimization and data-driven decision-making.
- Leadership & Mentorship: Mentored a team of 20 engineers, leading engagement events and training sessions – translatable to technical leadership in software teams, including code reviews and best practice adoption.
- Security & Compliance Monitoring: Automated compliance reporting, improving accuracy and removing manual effort – aligning with software engineering principles of automation, security monitoring, and system reliability.

Senior Resource Optimization Analyst July 2019 to January 2020 Florida Power & Light Company, Sanford, FL

- Software Development & Agile Methodologies: Led a cross-functional team in the Agile-driven development of performance analysis algorithms for real-time resource monitoring – aligning with modern software engineering practices for iterative development and user-centered design.
- Process Optimization & Change Management: Guided a 15-member team through a company-wide process standardization initiative, improving resource deployment efficiency and reducing productivity losses – skills that translate to DevOps and continuous improvement in software development.
- Data Analytics & Predictive Modeling: Leveraged historical data, Minitab, and statistical methodologies to identify key performance drivers, leading to targeted work strategies for productivity and cost efficiency – skills crucial for predictive analysis and data-driven software solutions.
- Stakeholder Communication & Technical Leadership: Conducted biweekly meetings with stakeholders to review progress and resolve challenges – skills transferable to agile standups, sprint reviews, and stakeholder engagement in software engineering.
- Training & Software Adoptions: Led training sessions on new tools, ensuring successful end-user adoption – paralleling software deployment training and onboarding in tech projects.
- Cross-Functional Collaboration & Innovation: Partnered with teams to launch a construction diagnostic center, achieving 35% productivity– highlighting experience in software integration and improved operational efficiency.
- Data Integrity & Software Enhancement: Improved data accuracy by 33% through optimized collection strategies and software enhancements – demonstrating expertise in quality assurance and continuous improvement in software development.

Resource Lead May 2017 to July 2019 Florida Power & Light Company, Sanford, FL

- Project Execution & Resource Management: Directed resource deployment for critical projects, meeting execution targets on time and within 1% of budget – reflecting project management and resource optimization skills applicable to agile sprint planning and milestone tracking in software engineering.
- Cost Optimization & Budget Management: Reduced annual operations spending by over \$100k through monthly compliance audits, ensuring efficient capital deployment – skills directly applicable to optimizing development costs and budget adherence in software projects.
- Automation & Reporting Tools Development: Built SQL and Excel macro-based reporting tools to standardize resource management and minimize budget overages – translatable to developing automated tools and optimizing database queries in software engineering.
- Team Leadership & Agile Practices: Led daily stand-ups and weekly planning meetings for regional teams, ensuring efficient execution through effective stakeholder, resource, and risk management – similar to leading agile teams, facilitating scrum ceremonies, and managing cross-functional collaboration in software development projects.

EDUCATION AND CREDENTIALS

- **Master of Science in Business Administration** – University of South Florida, Tampa, FL
- **Bachelor of Science Civil Engineering** – Embry-Riddle Aeronautical University, Daytona Beach, FL
- **Professional Engineer** – Florida Board of Professional Engineers
- **Project Management Professional** – Project Management Institute
- **Six Sigma Black Belt** – NextEra Energy, Inc.