

# Marianne Dillard

Tampa, FL  
m: (321) 278-9847  
mail@mariannedillard.com  
www.mariannedillard.com

## SUMMARY

Software Engineer with a proven track record of designing and delivering scalable full-stack web applications, secure APIs, and reliable system architectures across diverse industries. Skilled in modern frontend and backend frameworks, database optimization, and DevOps best practices, with experience deploying production-grade applications in remote and cross-functional environments. Adept at leading technical initiatives, improving code quality through automated testing and CI/CD, and aligning engineering solutions with business goals. Brings a unique cross-disciplinary background in engineering, data analytics, and business - demonstrating a continuous drive for learning, problem-solving, and building impactful, user-centric software.

## CORE SKILLS & TECHNICAL PROFICIENCIES

- Languages & Frameworks:** JavaScript (React, Node.js, Express), TypeScript, Python (Django, Flask), PHP (Laravel), HTML, CSS (Bootstrap, Tailwind), REST APIs
- Databases & Data Handling:** PostgreSQL, MySQL, MongoDB, Query Optimization, Data Integration
- DevOps & Tooling:** Docker, Git (GitHub, GitLab), CI/CD Pipelines, Apache, Virtual Machine Management
- Linux & Scripting:** Bash Scripting, Cron Jobs, Automated Backups, Server Monitoring
- Testing & Improvement:** Unit Testing, Integration Testing, Performance Tuning, Linting, Agile Methodologies
- Soft Skills:** Team Leadership, Cross-Functional Collaboration, Stakeholder Communication, Technical Documentation, Mentorship, Remote Work Proficiency

## PROFESSIONAL EXPERIENCE

<b>Software Engineer</b>	April 2023 to Present	TakeLAN (Remote)
<ul style="list-style-type: none"><li>Developed and deployed a full-stack web application using Django, React, and PostgreSQL. Increased user engagement through an intuitive user interface and improved system performance with optimized database queries. Implemented CI/CD pipelines using GitHub Actions and Dockerized deployments, streamlining development processes and reducing deployment times.</li><li>Enhanced platform security and performance by refining React UI components and optimizing API interactions. Implemented JWT authentication with role-based access control (RBAC). Reduced API response times, strengthened system security, and reduced potential vulnerabilities.</li><li>Managed and optimized infrastructure by configuring and maintaining a Linux-based VM for hosting microservices using Apache and Docker. Improved system uptime through customized Bash scripts for automated backups, uptime monitoring, and performance tuning, supporting the scalability of services.</li><li>Built and integrated a Python API to retrieve and process stock market data, automating financial analysis and performance tracking through integration with an Excel macro-enabled workbook. Automated financial reporting processes, saving 10+ hours per week for the analytics team and ensuring data accuracy and efficiency.</li></ul>		
<b>Software Engineer (Contract)</b>	March 2021 to April 2023	Armor Bionics (Remote)
<ul style="list-style-type: none"><li>Led development of a React and TypeScript partner portal, integrating Node.js APIs for user authentication and management, resulting in a secure, scalable interface that improved user onboarding speed and experience.</li><li>Designed and deployed RESTful backend services, enabling seamless third-party tool integration and reducing manual partner data entry by over 50% through scalable, well-documented endpoints.</li><li>Maintained robust code quality and deployment standards, implementing automated linting, unit tests, and CI/CD pipelines in GitLab, which reduced production bugs and improved release cadence.</li></ul>		

- Collaborated cross-functionally with design and product stakeholders, leading feature definition and delivery cycles in a remote Agile environment, consistently meeting biweekly sprint goals and product milestones.
- Promoted engineering best practices across a small, distributed team, improving development consistency and accelerating time-to-deploy through clear documentation and peer code reviews.

**Delivery Assurance Lead** January 2020 to April 2023 Florida Power & Light Company - Sanford, FL

- Developed a real-time reliability dashboard using SQL and Power BI, consolidating operational data across departments to drive actionable insights, resulting in a 62% cost reduction through improved resource allocation.
- Led cross-functional teams to deliver 10+ programs annually using Agile methodologies, managing a \$2M budget and consistently achieving all performance KPIs - highlighting strong project leadership and risk management skills.
- Directed full-cycle delivery of \$5M+ in infrastructure projects, aligning technical execution with stakeholder priorities and timelines – experience directly translatable to managing scalable, full-cycle software solutions.
- Automated compliance workflows and reporting using scripting and business logic tools, eliminating manual effort and reducing reporting errors, showcasing a deep understanding of system reliability and automation.
- Facilitated collaboration between engineering, operations, and IT to identify systemic inefficiencies, standardize processes, and enhance system visibility - demonstrating strengths in cross-disciplinary leadership and continuous improvement.

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

- Led Agile-driven development of performance analysis algorithms for real-time resource monitoring, coordinating a cross-functional team to iterate rapidly on data models - paralleling software engineering practices in iterative delivery and stakeholder alignment.
- Applied statistical modeling using Minitab and historical data to identify key productivity drivers, enabling targeted work strategies that improved efficiency and informed long-term planning - translating directly to predictive analytics and data-informed system design.
- Enhanced data integrity by 33% by redesigning data collection strategies and improving backend logic in internal tools, demonstrating strong quality assurance practices and a systems-thinking approach to data reliability.
- Directed a 15-member process improvement initiative, standardizing operational procedures across departments to reduce resource bottlenecks and improve performance - mirroring principles of DevOps and continuous delivery in technical environments.

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

- Led resource deployment for high-impact projects, coordinating cross-regional teams to meet milestones on time and within 1% of a multi-million-dollar budget - demonstrating precision in project execution, cost control, and delivery under constraints akin to agile software delivery cycles.
- Developed automated reporting tools using SQL and Excel macros, standardizing workflows and reducing manual effort, which minimized budget overages and improved data accuracy - showcasing skills in automation, scripting, and database optimization applicable to backend development.
- Facilitated agile-style planning rituals, including daily standups and weekly sprint reviews with cross-functional field teams, improving communication, execution speed, and team alignment - mirroring best practices in agile software development leadership.
- Managed resource allocation across 50+ ongoing initiatives, improving visibility into capacity planning and workload balancing - translating to effective sprint planning and backlog management in technical environments.

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## EDUCATION AND CREDENTIALS

- **Master of Science in Business Administration** – *University of South Florida, Tampa, FL*
- **Bachelor of Science in Civil Engineering** – *Embry-Riddle Aeronautical University, Daytona Beach, FL*
- **Professional Engineer** – *Florida Board of Professional Engineers*
- **Project Management Professional** – *Project Management Institute*