

# Errol G. Markland Jr.

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Experienced software engineer with over a decade in full-stack development, specializing in microservices architectures, cloud infrastructure (AWS), and securing web applications. Proven ability to drive technical innovation, reduce operational costs, and enhance system resilience. Skilled in aligning technical direction with organizational goals and fostering cross-functional collaboration.

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## **Skills Inventory:**

**Languages:** Python, Typescript, SQL, C#

**Cloud/DevOps:** AWS, Docker, Kubernetes, Helm, Terraform

**Software/Services:** Redis, AWS, Django, Flask, Angular, Express, Postgres, Git

## **Leadership/Communication Skills:**

- **Leadership:** Seek impact and align others with company vision, self-motivated and take initiatives, always curious to learn and share findings to strengthen overall team skill levels
  - **Project Management:** Promote fast-feedback loops and frequent check-ins, divide large tasks to smaller components, can delegate tasks, and manage team capacity
  - **Mentorship:** Empathetic active listener, able to mentor and empower engineers
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## **Experience:**

### **mPulse**

*Manager, Devops*

April 2024 - Present

- Reduced deployment time from 75 mins to 6 mins by migrating from a third-party vendor to managing deployments in-house using Kubernetes/Helm, saving \$20k annually. Achieved by spear-heading first cross-company technical collaborative effort since mPulse company acquisition.
- Reduced bulk PDF report generation time from 6 hours to 30 mins building a prototype for event-driven background worker process using AWS services (Lambda, SQS, SNS, S3) and managed via IaC (terraform).

### **Decision Point Healthcare Solutions**

*Product Development, Team Lead/Staff Engineer*

July 2020 - April 2024

- Reduced AWS monthly costs from \$30k to \$15k by migrating customer-facing microservices from Rackspace to AWS using scalable, highly-available architectural patterns backed by maintainable infrastructure-as-code. Reduced average downtime from 12 hours to 10 mins. Became a selling point in company acquisition by mPulse.
- Worked with CTO to refactor individual contributor career paths. Resulting in creating the notion of staff engineers to facilitate inter-departmental project workflows
- Facilitated developer innovation by holding meetings where engineers can discuss long-standing ideas/patterns and fast-tracking their implementation. Resulted in increased developer productivity and improved software stability.
- Reducing the overall cognitive load of software architecture by creating documentation/diagrams/proofs-of-concept that are shared throughout the company

*Product Development, Senior Full-Stack Engineer*

May 2019 - April 2024

- Decreased new client on-boarding time from 3 weeks to 1 hour by infrastructure-as-code and building automation scripts. Wrote documentations and project charters containing creating system architecture diagrams/documentation to visualize the automation process
- Improved developer velocity by automated testing and pull request gate checks via bitbucket pipelines and CI/CD through AWS CodePipeline.
- Implemented custom BI functionality within customer-facing web-application. Empowered product managers and customer success team to design new visuals which led to greatly increased customer satisfaction.
- Modified the company SDLC cycle to improve communication with other developers, boost confidence in new features by encouraging tests as part of the requirements, and maintain code quality by creating documents that capture good practices.

### **QMedic**

Oct 2015 - Jun 2016

*Contract Software Developer*

- Used JavaScript to build a set of browser-based data visualization tools that adheres to the company's proprietary data formats. Tested visual tools using mocha.js and documented used JSDocs
- Built a proof-of-concept Android app to assist with collecting health-related data using Google Wear API while utilizing energy preservation techniques

### **Appfigures**

Dec 2011 - May 2019

*Back-end Developer*

- Improved account verification process by implementing pub-sub streaming controls. Increased transparency to customers by relaying server operation status in real-time. Decreased average operation time from 2 mins to 15 secs.

- Redesigned algorithms used in the demo account to better showcase realistic report values while reducing average report generation time from 30 secs to 3 secs.
  - Used SOLID principles and design patterns while refactoring legacy billing operations to be more composable. Wrote tests (unit tests, integration tests, mocking frameworks for dependency injection) to verify correctness. Resulted in the company reclaiming thousands in missed revenue through enterprise customers.
  - Lead the initiative to place high-level documentation around base directories of intricate parts of the codebase to help to improve debugging as well as speed up onboarding for new developers.
  - Continually strengthen security stance by maintaining company bug bounty program, hardening web application surface, and increasing security awareness within the company.
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**Education:**

City College of New York, Grove School of Engineering

New York, NY

**Bachelor of Engineering (B.E.) in Computer Engineering**

Fall 2011

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**Certifications:**

AWS Certified Solutions Architect - Associate

Dec 2021

AWS Certified Cloud Practitioner

Aug 2021

*CompTIA Security+*

Feb 2017