## Errol G. Markland Jr.

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Software engineer with over a decade of experience with full-stack web development, building out microservices architectures, and securing web applications and APIs. Well-versed with AWS, information security, and software architecture.

**Experience:** 

## **Decision Point Healthcare Solutions**

July 2020 - Present

Product Development Team Lead/Staff Engineer

- Migrated customer-facing microservices web application from Rackspace to AWS using well-architected highly-available principles and self-healing techniques. Reduced average downtime from 12 hours to 10 mins. Reduced monthly costs from \$30k to \$15k.
- 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

Senior Full-Stack Engineer

May 2019 - Present

- Improved new client onboarding workflow by documenting and automating parts of the process utilizing various scripts and terraform to predictably generate new components. Decreased new client on-boarding time from 3 weeks to 1 hour.
- 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.

## **Projects:**

Address Format API

- API to show different country address format as well as how to transform US address format to another country format
- Built using Node and Express and deployed using AWS Lambda + API Gateway

Article Tracker

- Tracks articles read around from Reddit and Hacker News and posts results to a specified endpoint
- Created using Python and deployed using Docker

## **Skills Inventory:**

Languages: Python, Typescript, SQL, C#

Software/Services: AWS, Docker/Kubernetes, Terraform, Redis, AWS, Django, Flask, Angular, Express, Postgres

**Soft Skills:** Self-motivated, can lead projects to completion, able to collaborate on projects, effective communicator

Education and Certifications:	
AWS Certified Solutions Architect - Associate	Dec 2021
AWS Certified Cloud Practitioner	Aug 2021
CompTIA Security+	Feb 2017
City College of New York, Grove School of Engineering	New York, NY
Bachelor of Engineering (B.E.) in Computer Engineering	Fall 2011