

# Errol G. Markland Jr.

<https://errolmarkland.com> | <https://github.com/emarkland00> | [errol.markland@gmail.com](mailto:errol.markland@gmail.com)

Software engineer working 10 years implementing software patterns for ETL processes, building internal tools to boost company productivity, and creating RESTful reporting APIs. Experienced with agile software methodology principles, forward-thinking, and able to quickly adapt to dynamic business requirements.

---

## Experience:

### **Decision Point Healthcare Solutions**

July 2020 - Present

#### *Product Development Team Lead*

- Facilitated open communications with developers to optimize knowledge-sharing and mitigate productivity bottlenecks
- Reducing the overall cognitive load of software architecture by creating documentation/diagrams/proofs-of-concept that are shared throughout the company
- Architected and implemented initial proof-of-concept AWS environments for the company
- Created choreographed microservices workflow to streamline data operations between the data team and product development team and send notifications to the customer success team. Workflow is used as the template for future microservices workflows.

#### *Senior Full-Stack Engineer*

May 2019 - Present

- Augmented Django-powered authentication service to seamlessly support multiple federated login methods including SSO and ADFS
- Created dynamic content versioning proxy server in node.js that takes web request information and returns the corresponding static assets hosted on AWS S3
- 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.
- 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.

### **National Institute of Standards and Technology**

May 2011 - August 2011

#### *Summer Undergraduate Research Fellowship at Information Technology Lab, Guest Researcher*

- Web Application Development for Computer Security Metadata

### **City College of New York**

#### *Software Training Instructor*

June 2009 - December 2011

- Teach software applications and languages from beginner to intermediate skill levels
  - Assist people in troubleshooting their software-related concerns
  - Earned Employee of the Month, April 2011
- 

## 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:** C#, SQL, Python, Javascript,

**Software/Services:** Git, Docker, Redis, Memcached, Fiddler, Burp Suite, AWS, Django, Angular

**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
<b>Bachelor of Engineering (B.E.) in Computer Engineering</b>	Fall 2011