

Errol G. Markland Jr.

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Back-end .NET software developer working 6 years building internal tools/scripts to boost company productivity and creating reporting APIs for an app analytics platform. Experienced with agile software principles, familiar with secure development practices, and able to quickly adapt to dynamic business requirements.

Experience:

Appfigures

Dec 2011 - Present

Back-end Developer

- 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.
- Redesigned the account verification system by recycling server resources. Reduced server load on average by 33% while decreasing average operation time from 2 mins to 15 secs.
- Refactored parts of legacy code to be more maintainable using SOLID principles and wrote tests (unit tests, integration tests, mocking frameworks for dependency injection) to verify correctness.
- Implemented techniques for code documentation to reduce cognitive load for developers within company
- Continually strengthen security stance by maintaining company bug bounty program, hardening web application surface, and increasing security awareness within the company

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

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

Louis Stokes Alliance for Minority Participation (LSAMP), Undergraduate Researcher

2010 - 2011

- Mentor-guided research in the field of cryptography.

Grove School of Engineering – Journal of Student Research, Web Developer

2010 - 2011

- Implement the latest articles/magazines relating to research involving the Grove School of Engineering

Software Training Instructor

2009 - 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 - <https://addressformat.errolmarkland.com>

- 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 Docker

Article Tracker - <https://github.com/emarkland00/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

Software/Services: Git, Docker, Redis, Memcached, Fiddler, Burp Suite, AWS (S3, EC2), GCP (Cloud Storage)

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

Education and Certifications:

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