

Corey Rando

Corey.Rando@gmail.com Ph: (315) 571-5669

Syracuse, NY

SUMMARY OF QUALIFICATIONS

- 15+ years' architecting software and hardware solutions for the Department of Defense and Intelligence Community with direct customer engagement at the C-Level
- Expertly managed large multifaceted teams to develop and deploy technologies to on-premise and cloud-based high availability and mission critical architectures
- Software development experience working in agile environments and CI/DI pipelines
- Diverse background with special projects including 7-month civilian deployment to Iraq to support all facets of a long duration Remotely Piloted Aircraft in support of special operation missions
- My AWS hosted project can be found at <https://www.coreyrando.com>. The site hosted on AWS and is completely serverless using AWS S3, AWS CloudFront, AWS Lambda. The entire website is designed as infrastructure-as-code is using AWS SAM/CF and is deployed via GitHub runners.

WORK EXPERIENCE

Air Force Research Lab, United States Air Force

Jun. 2014 - Present

Senior Computer Scientist (Senior Solutions Architect)

- Led development of AWS orchestration using Docker containers and cloud formation to create secure workflows, supporting classified AWS domains
- Authored serverless functions using AWS Serverless Application Model speeding event driven processes by over 150% while significantly reducing costs.
- Created CloudFormation templates and used AWS Cloud Development Kit to deploy resources to AWS, providing 100% infrastructure-as-code coverage
- Architected a compliance-as-code solution using AWS Config writing custom lambda functions in Python to provide coverage on custom resources deployed to the organization.
- Expertly managed cost, fielding schedules, development teams and information assurance teams of 50+ personnel strategically located across the US with yearly labor budgets exceeding \$20 Million
- Executed the deployment of over 1500 workstations at over 15 globally operational sites integrating Microsoft SCCM and hybrid cloud architectures; reducing application deployment time frames from months to days and reducing costs by over 50%.
- Architected a first DoD dual-VPN tunneling solution CISCO and ARUBA hardware and stacks to support over 1000 VDI end-clients for at home classified access for senior leaders and essential national security members
- Competitively selected (2 Civilians out of AFRL) to establish an 18-member launch and recovery element for a joint \$35-million, Secretary of Defense directed, and remotely piloted aircraft program
- Architected a dual data-at-rest solution and biometric capability on Android to support mission applications and provide root of trust for mobile phones in the field;

Booz Allen Hamilton

Nov. 2011 – Jun. 2014

Senior Solution Architect

Rome, NY

- Developed database solution using Spring JPA/Hibernate to support metadata analysis of national imagery and metadata; agnostic approach sped up development by 15%
- Architected multithreaded orchestration engine in JAVA to provide watermarking and image processing techniques to national imagery
- Worked with NSA Mobility Program, SE-Android and secure boot to contributing to DoD/IC roadmaps

BAE Systems

Feb. 2008 – Nov. 2011

Software Engineer

Rome, NY

- Developed event driven file system crawler in JAVA to interface federated SOA imagery catalog; increasing system performance by over 25% compared to legacy polling interface
- Increased development timelines by introducing new agile methodologies and CI/DI pipelines with planning poker and test-driven development

- Developed and tested REST interfaces for passing imagery metadata in a federated catalog

Air Force Research Lab, United States Air Force

Aug. 2006 – Feb. 2008

GS-05 Mathematician

- Led student team of 5 through IRC protocols and botnet distribution collection
- Authored bash scripts and Linux services for botnet detection and obfuscation

EDUCATION

State University of New York Polytechnic Institute

December, 2010

Masters, Computer and Information Science

Utica, NY

Syracuse University

May, 2007

Bachelors, Information Assurance

Utica, NY

SKILLS & INTERESTS

- **Languages:** Python, Java
- **Certification:** AWS Solutions Architect Associate
- **Operating Systems:** Windows, Linux, OSX
- **Developer tools:** Git, Maven, Atlassian Tools, Nexus
- **Cloud / Hybrid :** Amazon Web Services, VMware ESXI, Docker
- **Interests:** IT projects (ML/AI home camera architecture, Wire guard VPN, ESXI Server, Docker containers, Unifi networking, AWS projects)