

Information



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TS/SCI Poly

Education

Master of Science in Applied Mathematics

Brown University
Providence, RI

Bachelor of Science in Marine Engineering Systems

U.S. Merchant Marine Academy
Kings Point, NY
Magna cum Laude

Skills

Solution Architecture
Application Development
DevOps, CI/CD
Legacy System Modernization
Federal Consulting
Proposal Response
Collaborative Team Member
Creative Problem Solver
Honest Communicator
Passionate Technology Evangelist

Rachel Wright

Senior Solutions Architect

I'm a versatile and creative engineer with extensive experience in technology and engineering. I have strong communication skills across technical and non-technical disciplines combined with ability to develop a vision and deliver modern technology solutions. I am an experienced system and data architect who still writes code. I am proficient in proposal responses, having developed and written technical solutions and technical approach sections. I have presented at orals, both live and video orals, and have participated as a developer and reviewer in successful tech challenge responses.

Experience

Senior Solutions Architect

Pyramid Systems, Inc.
2019 – Present

Head of Pyramid Labs, Pyramid Systems' internal technology incubator. Architected and developed cloud-native solutions in AWS, with infrastructure-as-code using Terraform and CI/CD supported by GitLab using semantic versioning. Using AWS CDK, built Labs-owned landing zones for training and demo use. Provide senior technical support and code review for projects in NodeJS, Python, and .Net. Provide application security scanning, dependency checking, security architecture review and WAF review.

Key contributor as developer in successful seven-day technical challenge proposal effort.

Solutions Architect and technical lead on large cloud-hosted secure file-sharing application developed for the FDIC managed using DevOps. Lead a team of developers performing enhancements, maintenance, and production support. Lead design and development of new components, including all supporting documentation for architecture and security reviews. Advocated and guided project as the first FDIC project to adopt Git for source control.

Senior Solutions Architect

Huntington Ingalls Industries, Technical Solutions Division
2018 - 2019

Senior Solutions Architect and co-founder of the Office of the Chief Technology Officer. Represented division at HII-wide Technology Council, a forum for collaboration and exchange in cutting-edge technologies, such as machine learning, data science, and industrial IoT.

Designed a development baseline methodology and toolset to enable turnkey project initiation to support more efficient project transitions.



Applied years of federal IT experience, deep technical expertise, and understanding of current and emerging technologies to design and develop compelling, realistic technical solutions for proposals of over \$25M.

Designed and developed applications for customer demonstrations to support the Business Development staff.

Designed an approach based on Agile Fluency for USPS to mature software development teams from “doing Agile” to “being agile” and presented it to USPS IT leadership.

Developed innovation transformation model and review process for growing ideas from ideation through experimentation and delivery.

Developed strategy and approach for addressing shadow IT.

Launched and authored well-regarded internal technology newsletter to highlight new technologies and cutting-edge projects.

Solutions Architect

Buchanan & Edwards

2013 - 2018

Solutions Architect in the CTO organization. Identified and implemented new software technologies and methodologies. Designed software architectures and implementation approaches for proposals, customer projects and internal software projects. Designed and developed proof-of-concept projects to promote new technologies.

Designed new, microservices-based architecture to replace legacy monolithic architecture for a critical application for the FBI. Designed an approach and methodology for seamless, incremental transition to speed deployment and minimize risk. Performed business and technology analysis; developed domain model, system architecture, and database architecture; developed and delivered proof-of-concept demonstrations to customer and to development team; and laid out data migration approaches.

Designed and developed data-binding tier for a mobile application for USMC recruiters that was enabled for connected and disconnected operation. Synchronization with a centralized system occurred on demand, allowing users to work on tablets and laptops in field environments while disconnected from the network.

Designed and developed a cloud-based search application for proposal and marketing materials stored in a NoSQL database with unstructured text search enabled with Solr. The search application features full-text search with wildcards, stemming, and results scoring.

Managed architecture redesign, code refactoring and daily operations for a high-profile intranet application at the Department of State. Performed planning and estimating for future enhancements.

Senior Technical Consultant

Project Performance Corporation

2001 - 2013

Developed vision and strategy for the technology resources to support the Department of Energy's Save Energy Now program. Collaborated with academics and engineers to design calculators,



scorecards, and assessment tools. Architected and developed detailed design for integrated software toolkit to deliver resources as SharePoint components, downloadable tools, mobile applications, and custom Excel Add-ins. Led team of six software developers.

For the DOE Federal Energy Management Program, led team of developers and business analysts implementing process modernization program. Designed new system architecture and data upgrade methodology.

For NOAA, led team of developers to produce a sophisticated system for agency-wide planning, programming, budgeting, and execution system (PPBES). Prepared and ran user focus groups to refine the system requirements. Designed architecture and developed dynamic data layer.

For the DOE Office of Environmental Management, reengineered data structures to support project-tracking system. Designed data validation, transformation, and migration methodology. Oversaw large team of database developers.

Designed database structures in SQL Server and Oracle for an EVM reporting system, a custom CRM tool, and a database to support a computational linguistics algorithm for computing phonetic similarity.