Edward M. Lewis
Sr. Software Engineer
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HIGHLIGHT OF QUALIFICATIONS

· Over 20 years experience in general programming (Ruby, NodeJS, Java, Perl, .NET, VB)
· 7+ years of Ruby on Rails experience including unit testing/test driven development (Rails 2/3/4/5/6, Ruby 1.87/193/2.4.0/2.6), preferably on Linux
· 7+ years Rails/web application administration (AWS, PCF, Apache/Nginx, Passenger, Mod Security, MySQL)
· Bachelor of Arts, Graphic Design (VPI 1989)
· ScrumMaster Certification, June 2007/2018
· ITIL® v2: Achieving Foundation Certification, June 2007

PROFESSIONAL EXPERIENCE
Perspecta.

Sr. Ruby on Rails Engineer   April 2020 – present

· Design/Build/Test/Deploy a Ruby on Rails Application for creating a Dashboard to collect critical deployment information for all applications in production (200+).
· Experience with Token-based Authentication using API-AUTH gem.
· Experience with ActionController::API
· Experience with ActionCable and ActiveJob
· Maintained 95% or better code coverage using RCov.
· Tested all the API's and functionality utilizing TDD principles like rspec, factorygirl, ffaker, WebMock and VCR.
· Implemented Continuous Integration Process for effective deployments on to Stage/QA servers using jenkins.
· Participate in weekly team meetings to present newly developed features and to help formulate new features, which were added as issue tickets to GitHub (ticketing system similar to JIRA)

Dark Wolf Solutions, Inc.

Sr. Software Engineer   Sept 2019 – February 2020

· Designed ETL Logging Microservice to satisfy ATO requirements.
· Implemented ETL Logging Microservice to perform CRUD functionality within ElasticSearch indexes.
· Implemented logic to automate CRUD index functionality within ElasticSearch.

- · Implemented ORM DataModel persistent layer and created data validation processes.
- · Designed and Implemented Client API to interface with Logging Microservice.
- · Kabana was used to search Log results.
- · Scrum lead for a small development team focusing on major features and functionality.
- · Experience with asynchronous message processing and message queue (RabbitMQ, SNS)
- · Experience with EC2, RDS, S3, VPC, CloudFormation, Auto-scaling services within AWS.
- · Participant in code reviews, design reviews, and offering guidance on Ruby on Rails best practices.
- · Mentoring junior members of the team and contributing to process improvements.
- · Continue to evolve web application platforms to meet scaling, security, and compliance needs.
- · Designed Conceptual diagrams for Authentication/Logging processes to be submitted as Body of Evidence artifacts to be considered for Authorized to Operate requirements.
- · Familiar with Vulnerability Scans and implementing code logic to mitigate results.
- · Key member of a development team, 5+ years of Full-Stack Ruby on Rails development experience.
- · Strong front-end development skills (JavaScript, Node.js, VueJs)

Sequoia Holdings, Inc.

Sr. Software Engineer – Raptor Team   Dec 2016 – Mar 2019

- · Implemented CRUD functionality to insert and read data from ElasticSearch indexes.
- · Implemented ElasticSearch data mappings in order to search and find user associated data within index.
- · Collaborate with Product Management and User Experience experts regarding product definition, schedule, scope and project-related decisions.
- · Developed hundreds of features in an agile environment using Ruby on Rails, HTML/HAML, CSS and JavaScript, jQuery.
- · Planned and carried out daily scrums, weekly estimations and retrospectives and pair programming.
- · Used GitHub for version control.
- · Managed code with Rspec and Cucumber.
- · Worked with SQL and ElasticSearch for providing a Full Text based search.
- · Worked with Redis for caching and improving user performance.
- · Worked with PaperTrail for auditing model changes.
- · Designed applications using object oriented concepts.
- · Automated the creation of a full stack development Rails platform for new members. Saving countless hours in manual configuration.

Synaptic Solutions Inc.

Sr. Software Engineer/SME – ACE   Dec 2014 – 2016

- Member of the Applications Center of Excellence (ACE) group primarily focusing on moving legacy RoR applications to AWS Cloud Architecture.
- Upgrade rails applications from Rails 2 to Rails 3. Included but not limited to upgrading key components. (i.e, Authenticate/Authorize, User Statistics, Audit, S3 Attachments, Session Tracking).
- Managed all aspects of maintaining ATO for upgraded applications.
- Utilize standard software processes to support the development of distributed enterprise applications hosted on Linux servers.
- Support a user base from 2 to 100+.
- Object-oriented programming and design.
- Proficiency with RDMS data stores; MySQL
- Proficiency with full-text search solutions: Solr 4.0.
- Proficiency with HTML 5, Javascript, jQuery.
- Proficiency in writing test cases using Rails RSpec and Cucumber/Capybara.

ExaTech Solutions Inc.

Sr. Software Engineer/SME – STREET   Mar 2012 – Dec 2014

- Assist OSEG in achieving the 2015 Enterprise objective to upgrade the current Press Agency Collection infrastructure (PAC) using RoR solutions.
- Member of the Small Application Development Environment (SADE) group primarily focusing on the implementation of Agile standard software processes to support the development of distributed enterprise applications hosted on Linux servers. User base anywhere from 2 to 200.
- Object-oriented programming and design.
- Leverage standard services (FTP, RSS, HTTPProtocol, REST, IMAP and LDAP) to leverage data transport, communication and security.
- Proficiency with data stores; MySQL, Cassandra
- Proficiency with full-text search solutions using Solr 4.0
- Experience with NoSQL Architecture using Cassandra.
- Mentor other staff members in advanced Ruby on Rails concepts.
- Complete application upgrades from Rails 2, Rails 3 and Rails 4.
- Agile development methodologies including Scrum, especially pair programming, test-driven development and continuous iteration.

Abraxas Corp

Sr. Software Engineer/SME – RLSI   Jun 2009 – Mar 2012

- Served as Subject Matter Expert and technical lead managing all aspects of project development, personnel, schedule activities and deliverables for a J2EE web application.
- Upgraded the baseline (OS, Database, Weblogic, Java) and relocated servers

- Successfully sunset the COGNOS system
- Transitioned programming technologies from Java to Ruby On Rails to support TGENSys deployment to production.
- Part of the transition team from incumbent NOL activities to the current prime.
- Developed a web service API in Ruby On Rails to support NOL transition
- Tier1, Tier2, and Tier 3 support for a Ruby On Rails application.
- Supported all deliverables including CRT Report and quarterly updates to public website.

Hewlett Packard

Sr. Software Engineer – RLSI   Jun 2007 – Jun 2009

- Subject Mater Expert and technical lead managing all aspects of project development, personnel, schedule activities and deliverables for a J2EE web application.
- Managed all aspects of re-constituting a web application.
- Managed all J2EE component upgrades comprising the Web Application.
- Managed all software baseline changes.
- Implemented Software Engineering disciplines in support of the full life cycle development processes.
- Implemented software validation rules to User Interface JSP to enhance data integrity.
- Re-engineered document publishing application services in order to meet tight turnaround deadlines.
- Re-engineered session, transaction and data model processes to enhance user productivity.
- Lead all development efforts for integrating the Endeca COTS product.
- Provided a software solution in Perl that automated a file editing process which was used by the auditing department for all system search activity. The solution enhanced productivity and created a more reliable auditing process.

GH Engineering

Software Engineer – GIS   Feb 2006 – May 2007

- Designed, developed and deployed a Java EE web application to allow users to integrate custom data from various data sources, customize the metadata using KML 1.0 specs and display the results in a geographical manner using Google Earth client.
- Designed, developed, and deployed server side Java Servlets, and Java Server Pages (JSPs) for JEE web application using an open source framework, Spring.
- Familiar with various java design patterns.
- JEE application was designed to conform to all current W3C standards and compliant to internationalized and localized standards.
- Experience with designing web applications to be cross-browser compatible.
- Deployed applications using Sun Application Server, Tomcat and WebLogic.

· Data sources included Oracle 10g and MS Sql Server 2003.

Mantech International Corp
Software Engineer – IT Support   Feb 2005 – Jan 2006

· Team lead for the MVC Tier of a J2EE Struts Integrated Enterprise Application using Apache Tomcat 5.0 web server with an Oracle database backend.
· Design, tested and deployed application using JSP's, JSTL and HTML pages to support the application.
· Designed, developed and implemented the database to support the web application using TOAD 7.5.
· Designed, developed and implemented the programming logic and business-rules using Java and JSP code.
· Successfully Implemented the Struts 1.1 framework to handle security, error messaging, displaying search results and performing validation routines.
· Designed, developed and implemented an Applet using an agency approved COTS product called JfreeChart to generate graphs for analyzing anomalies in application data.

Lockheed Martin, Integrated Systems & Solutions
Application Engineer - Information Systems Support (ISS)   August 2003 – Feb 2005

· Designed and implemented the migration of a complex sequential based software application (VB6.0) to an Object-Oriented design (.Net) platform.
· Developed new functionality and implemented changes for the application.
· Managed the application's JDBC connections and SQL statements with an Oracle database.
· Managed the application across the development, testing, and production environments.
· Applied advanced software engineering support to maintain a highly mission critical system.
· Evaluated vendor capabilities to provide required products or services.

Statistica Inc.
Web Application Developer   June 2000 – August 2003

· Provided software engineering support for the development of intranet web-based applications of complex business systems for the Immigration and Naturalization Service/Department of State Data Sharing Initiative under Consular Affairs (CA/EX/CSD).
· Designed, tested and implemented solutions using Visual Studio .NET (Specifically VB.NET and ASP.NET) using Object-Oriented Programming techniques and methods.
· Developed software design specifications based on the Unified Markup Language/Rational.

NET2000 Communications Inc.
Systems/Telecommunications Engineer   August 2000 – October 2001

- Solved end user problems in a production support capacity by analyzing, testing and managing the implementation of WAN component configuration.
- Manage all engineering support activities with internal and external partners from a Network Operations Center.
- Provide technical support for all WAN communication devices to be compliant with all Service level Agreements. Included but not limited to monitoring, reporting and maintaining network performance for all serial communication devices integrated in a complex Frame Relay and ATM network. Components included Nortel Passport switches, CISCO 1600/1700 series routers, ethernet-based switches, inverse multi-plexers, repeaters, ZONE channel service units and ADC data service units, channel banks, network interface units and packet switched devices.

SPRINT Corporation Inc.
Network Engineer   Sept 1999 – Aug 2000

- Provide Tier II technical operation production support for Frame Relay Packet Data Services Center (PDSC). This includes applying non-intrusive and intrusive testing methods to analyze, determine and manage communication circuits and all associated line components which comprise the Wide Area Network (WAN).

E-OIR Measurements Inc.
Project Lead   June 1991 – Sept 1999

- Project Lead - Systems Test Engineer and a Project Lead providing engineering support for characterizing Electro-Optical Infrared Devices at the Advanced Evaluation Facility (AEF) in the Night Vision Electronic Sensors Directorate (NVSD) located at Fort Belvoir. Managed the data collection efforts used to generate performance metrics and reporting services of key Infrared (IR) system characteristics including Instantaneous Field-of-View, Minimum Resolvable Temperature Difference, Modulation Transfer Function and Line-Spread Functions.

- Test Engineer – Provided performance metrics to assist a Source Selection Board to determine the next generation Drivers Viewer Enhancement (DVE) system and the 21st Century Warrior hand-held system. Experience in designing, implementing and testing standard methods for characterizing infrared systems. Also, coordinated all calibration tests with outside contractors like TRW,

Lockheed Martin, Cincinnati Electronics and Hughes. Other related responsibilities included field data collection support and database archival.

·   Photo Research Engineer – Designed and developed data collection processes to support the generation of synthetic imagery used to train military personnel in characterizing thermal signatures of various types of NATO vehicles. Managed report generation for Quality Assurance (QA) audits and technical changes of system life cycle.

SKILLS
- Advanced knowledge of AWS, Pivotal, Ruby, Rails, RSPEC, NodeJs, MySQL, Postgres, CSS, HTML, Javascript, Javascript Frameworks (VueJS, JQuery).
- Eligible to obtain a clearance.
- Linux system administration experience.
- Understanding of authentication/authorization concepts, technologies and protocols.
- Agile project management tools (JIRA)
- Rails testing frameworks (i.e., Minitest, Rspec, Capybara, Cucumber)
- Excellent self-management skills; highly organized and able to prioritize
- Provide development support to the government client and enable design, development, and implementation of complex systems
- Excellent communication skills with ability to articulate concepts and ideas through verbal, written and illustrative means
- Developing and supporting SaaS applications experience
- Strong initiative and motivated to take ownership
- Meticulous attention to detail
- Advanced knowledge of web technologies and browsers
- Passion for technology and working knowledge of industry landscape