JAMES HART

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<u>LinkedIn</u> | <u>GitHub Repos</u> | <u>GitHub Blog</u>

Senior software engineer with 10+ years of professional experience in full-stack development and DevOps practices in agile environments across multiple industries. Proven track record in building a wide range of scalable, high-performance applications and improving on existing system architecture. Extensive automation experience and strong background working with CI/CD pipelines and secure Cloud hosted environments to streamline deployment of microservices and multi-tier applications. Specializing in Python, .NET, and JavaScript.

SKILLS

Languages: Python | .NET (C#/F#) | JavaScript | Java | PowerShell | Go | PL/SQL | T-SQL

Development Frameworks: ASP.NET Core | Python Flask | JavaScript: React, Node.js, Bootstrap, Angular | Spring Boot

Databases: SQL: Microsoft SQL Server, Oracle, PostgreSQL | NoSQL: Redis, MongoDB

Development Methodologies: Agile | Domain Driven Design (DDD) | Test Driven Design (TDD)

DevOps & CI/CD Tools: Azure DevOps Services | Jenkins | Docker | Git | TFS | Bitbucket | Octopus Deploy | TeamCity | Jira

Cloud Platforms & Services: Microsoft Azure | Okta | Heroku Configuration Management: Chef | Ansible | ARM Templates

Application Monitoring: ITRS | New Relic | PRTG

Messaging Systems: AMPS | Redis Pub/Sub | RabbitMQ | RESTful APIs

HONORS & ACHIEVEMENTS

- Built an Angular web application backed by a Python-Flask API middle tier to track server information in order to support infrastructure and application deployment automation and visibility
- Developed Pester scripts utilized by company-wide development teams to validate application configurations for software upgrades, reducing manual
 effort by 99% (2 days to 30 seconds) and minimizing troubleshooting time
- Automated Hyper-V Windows VM creation and configuration through PowerShell and Chef, reducing setup time by 98% (2-4 days to 30 minutes)
- Automated software deployment processes via PowerShell including inserting XML data into a database and configuration of IIS websites and application pools, decreasing setup time by 98% (4 hours to 5 minutes)
- Recognized twice at the company level for exceptional impact as a senior member of a small team, significantly improving company-wide
 development processes and setting new standards for efficiency and collaboration.
- Recognized for excellence in managing complex release processes by ensuring comprehensive and compliant documentation that met external
 regulatory requirements, streamlining workflows, and enhancing team efficiency.
- Featured interviewee on Pluralsight's All Hands on Tech Podcast Episode 056 Upskilling Tips and Tricks with Developer James Hart

EXPERIENCE

Software Engineer III

Bank of America - Houston, TX

02/2022 - Present

- Enhanced and supported microservice-based commodities market data management applications, ensuring data accuracy and availability for downstream systems
- · Developed curve marking features that eliminated dependency on spreadsheets, improving data integrity and user efficiency
- Mentored junior team members in best practices for modern software engineering, fostering a collaborative and innovative team culture
- Improved system architecture to provide real-time data tracking through downstream systems, increasing transparency and reducing data errors by 20%
- Led the successful transition of a key segment of users from spreadsheets to a robust curve marking application, resulting in increased efficiency and data accuracy
- . Designed and implemented a feature for same-day curve initialization, streamlining processes and eliminating the need for overnight processing
- Tools: Python (Quartz), React/Redux, AMPS Messaging, BofA NoSQL DB, ITRS, Bitbucket, Jenkins

Software Engineer II

Bank of America - Houston, TX

10/2019 - 01/2022

- Spearheaded the development of key features to retire a legacy application, coordinating with cross-functional teams and delivering the project under a tight year-end deadline, resulting in reduced maintenance costs and improved system performance
- Enhanced middle-office reconciliation applications, reducing data entry time from weeks to minutes and improving operational efficiency
- Resolved recurring erroneous alerts in an Exchange limit monitoring application, restoring system reliability and user trust
- Developed an ETL feed mapping Exchange accounts to trader books, enabling accurate position tracking and compliance with regulatory limits
- Tools: ASP.NET/C#, MSSQL, Python (Quartz), BofA NoSQL DB, Bitbucket, Jenkins, Ansible

Senior Software Consultant

Credera – Houston, TX 05/2019 – 10/2019

- · Collaborated with clients to solve their biggest technological challenges and contribute to a culture of continuous learning and improvement
- Supported a large-scale Microsoft Dynamics CRM installation and surrounding custom applications, ensuring system stability and performance
- Led company-wide tutorial labs covering DevOps tools, concepts, best practices and enhancing team skills in CI/CD processes for junior members
- Tools: PowerShell, MSSQL, Jenkins, Octopus Deploy, New Relic, PRTG

Quorum Business Solutions Inc. - Houston, TX

- Managed operational processes to decrease development life cycle timelines under an agile software development methodology
- Developed tools, built scripts, and created documentation used for client-side web server and .NET framework based software installations
- Automated Azure DevOps release pipeline creation for deployment of software applications, increasing process efficiency by 90%
- · Migrated n-tier application environments to Azure Cloud, allowing the business to evaluate cost and time savings
- Developed a web application to automate server information management, significantly improving software deployment processes
- Tools: PowerShell, .NET/C#, RabbitMQ, Oracle, MSSQL, Azure DevOps Services, Chef, Ansible, Azure, TeamCity

Senior DevOps Engineer

Quorum Business Solutions Inc. - Houston, TX

01/2017 - 02/2018

- Automated and standardized internal software deployment processes, reducing completion times from days to minutes and speeding up software delivery timelines
- Supported and enhanced internal processes, minimizing manual errors and improving process reliability
- Designed and implemented a standardized SQL script template for managing database settings, streamlining database administration across environments and data refreshes
- · Deploy and troubleshoot code and database installations in clients' non-Production and Production environments
- Tools: PowerShell, .NET/C#, Oracle, MSSQL, Azure DevOps Services, TeamCity

Senior Software Implementation Consultant

Quorum Business Solutions Inc. - Houston, TX

04/2014 - 12/2016

- Implemented Quorum Land Suite software upgrade for major clients, leading small teams across multiple successful project completions
- Managed business and IT expectations throughout the project lifecycle from internal development to Production cutover and transition to longterm product software maintenance
- . Developed an Oracle database package to streamline legacy data migration, reducing upgrade timelines from months to weeks
- Tools: Oracle, .NET/C#

Software Implementation Consultant

PowerPlan Inc. - Atlanta, Georgia

06/2012 - 03/2014

- Implemented PowerTax software for major corporate clients, providing expertise in utility tax accounting and Oracle SQL scripting
- Coordinate script migrations and database management with clients' IT
- Tools: Oracle SQL

PROJECTS & INTERESTS

Feldspar

- Microservice-based market data visualizer with websocket architecture (my repo / Azure site)
- Technologies: docker, Node.js, ReactJS, C#, Java, nginx, Redis pub/sub and caching
- Deployed as a multi-container Azure App Service with Docker Compose

MediatrVsDU

- A comparison of the C# MediatR library with F# Discriminated Unions (my repo / my write-up: mediatr-vs-discriminated-unions)
- Technologies: .NET, MediatR

Advent of Code solutions

- Solutions to select Advent of Code (cf. adventofcode.com) puzzles (my repo)
- Technologies: .NET, Python

AoCSolver

- A website to solve Advent of Code puzzles (my repo)
- Technologies: Python, Javascript, Heroku

Ticket management sites

- Websites inspired by Jira using different technology stacks
- <u>TicketPusher</u>: C#, Blazor, .NET Core Web API, EF Core, Azure SQL Database, Docker, Okta
 - o Deployed as a multi-container Azure App Service with Docker Compose
 - o Utilizes GitHub Actions to push containers to Azure Container Registry (ACR)
- pytickets: Python, Flask, Bootstrap, PostgreSQL, Okta, Heroku
- gotickets: Go, MongoDB, HTML

EDUCATION

Bachelor of Arts in Mathematics, Minor in Computational and Applied Math

 ${\sf Rice\ University-Houston,\ Texas}$

08/2008 - 05/2012

- GPA: 3.8, Cum Laude
- Publication: Energy-minimizing unit vector fields
- National Hispanic Merit Scholar