Stacy Noland

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Senior Software Engineer | Backend Developer | Data Engineer

Accomplished career building high-throughput data services primarily within the Identity and Access Management (IAM) domain, with extensive development experience in mission-critical applications and large connected systems. Lead developer on transformative projects that boosted organizational impact.

Experienced in mitigating and securing accounts from malicious activity. Expert in full-stack (HTML, CSS, JS, Bootstrap) and microservices development using C#/.NET, Python, and SQL to deliver quality code with high-impact scalable performance, especially in the cloud (Azure, AWS). Empathetic communicator that cultivates relationships with diverse stakeholders and teams.

Recently acquired MIT certificate in Applied Data Science for working with AI and ML models in Python using packages Pandas, NumPy, Scikit-learn, and Surprise for cleaning and analyzing data, and creating recommendation systems.

AREAS OF EXPERTISE

- Product and Service Ownership
- Agile Teamwork
- Object-Oriented Programming
- Cloud Technology (Azure, AWS)
- Distributed Systems
- Containerization (Docker)

- Python (Django, Flask)
- C#/.NET (Core, ASP.NET)
- CI/CD Pipelines (GitHub Actions, Ansible, Jenkins)
- IAM Protocols (SAML 2.0, OAuth 2.0, OIDC, SCIM)

- Databases (MySQL, SQL Server, PostgreSQL)
- Structured Query Language (SQL)
- Data Modeling
- Software Lifecycle (SDLC)

PROFESSIONAL EXPERIENCE

University of South Florida | Tampa, FL
Software Engineer II   **02/2022 – 11/2022**

Led large projects through analysis, development, and advancement of core functions that impacted the entire organization within the Identity and Access Management system. Oversaw development and revision of full-stack applications and automated projects for processing large-scale user data. Identified and corrected inconsistencies within data and procedures by determining user impact and implementing solutions. Facilitated code reviews and project meetings for team collaboration and engagement.

- Created robust Python project for tracking and validating data extraction and transformation in new IAM system to determine correctness in production.
- Developed highly available RESTful API service in C#/.NET Core with scalable distribution through Azure to provide new users encrypted custom activation links for improved security and 50% reduction in user complaints.
- Boosted performance of primary web application for over 50,000 active users by updating to ASP.NET Core MVC, and refactored HTML5, CSS3, and JavaScript with clean up and code readability improvements.
- Secured access to web applications by integrating Azure Active Directory (Entra ID) services and enabling Multi-Factor Authentication (MFA) for enhanced security.
- Analyzed stored procedures for inconsistencies and data quality issues modifying role-based access permissions database; updated SQL to verify a data change occurred prior to modifications, reducing risk of ill-timed jobs fetching inaccurate data.
- Managed large high-priority projects and tasks in JIRA while also providing continued operational support to users and teams via JIRA Service Desk.
- Enhanced and updated C#/.NET code provided by Microsoft developers for implementation of new features in Microsoft Identity Manager (MIM) to accurately process user affiliations data.

University of South Florida | Tampa, FL
Software Engineer I   **10/2018 – 02/2022**

Advanced Identity and Access Management initiatives through comprehensive design, development, testing, and deployment of mission critical services. Executed analysis projects that increased processing speed, data quality, and system efficiency through the development of automated features for data protection. Managed cloud applications and integrations for various methods of authentication.

- Orchestrated high-priority project in collaboration with IAM Director, Area IT Director, and CTO as stakeholders to secure critical health research applications with updated authentication flow using MFA.
- Boosted system performance by 30% with automated scripts designed to correct data identified by Python real-time analytics project to determine issues in MIM using data validation.
- Developed Python extract, transform, and load (ETL) pipeline for over 500 records per daily sync from health departments to be added into SQL Server database for consumption by MIM.
- Mentored fellow developers through code reviews and informational meetings to establish SAML federated identity provider (IdP) server deployment to Azure with configuration to Azure AD (Entra ID) for MFA.
- Created detailed documentation for projects, such as README files for Docker containers deployed via GitHub Actions.
- Spearheaded and resolved configuration issues with MIM attempting simultaneous updates on a single user record in SQL Server which reduced user provisioning time by 80%.
- Designed SQL scripts to extract, transform, and load (ETL) over half a million identity and affiliation records from Oracle databases to SQL Server for proper role-based access control (RBAC) within IAM system.
- Managed and configured over 100 applications in Azure using Open ID Connect and OAuth for domain user authentication and Privileged Access Management (PAM) for app configuration access.
- Executed PowerShell scripts to manage users and resources in multi-tenant and multi-domain environments, including LDAP configuration, and Active Directory updates on perm and in Azure AD (Entra ID).
- Led project to add and continue adding via daily sync over 1500 health users from a new department using automated services written in PowerShell to consume data from CSV file transferred over SFTP and load it into SQL Server for MIM.

University of South Florida | Tampa, FL
Systems Administrator I   08/2016 – 10/2018

Managed various communication platforms for a large organization. Primary administrator for mailing list platform. Provided operational support to users while also completing project tasks in JIRA.

- Developed automated job in Python to update clinical mailing lists on new platform and continued automatic sync between Oracle database with no downtime.
- Created Python project to extract, transform, and load (ETL) mailing list data from two servers running GNU Mailman to a single server running L-Soft Listserv reducing resource usage for mailing lists by 66%.
- Managed multiple communication platforms including Google Workspace, Microsoft Exchange 2013 & 2016, Microsoft Exchange Online, Microsoft Teams, and Slack for multi-campus organization with over 100,000 active users.
- Assisted with migration of over 20,000 user mailboxes from Exchange Server to Exchange Online.
- Managed Active Directory, Azure Active Directory, and AAD Connect for multiple tenants via PowerShell.

University of South Florida | Tampa, FL
Lead Service Analyst   03/2013 – 08/2016

Supervised analysts and performed quality reviews. Provided in-person, phone, and online chat support.

- Managed quality assurance of support tickets for over 15 analysts at the IT Service Desk.
- Escalated high-priority and high-impact issues to administrators through ServiceNow.
- Assisted analysts during high call volume times to ensure proper reporting.
- Mentored analysts regarding protocols and processes for troubleshooting and reporting.

EDUCATION

MIT Professional Education Program (Certificate) | July-October 2024
Applied Data Science: Leveraging AI for Effective Decision-Making

Bachelor of Science, Information Technology
University of South Florida, Tampa, FL | 2010 – 2014