

Nicholas S. Simone

Ballwin, Missouri 63021 | 636-399-8249
nsimone101@gmail.com

IT professional with 8+ years of experience in software development, data engineering, and mentoring. Holds a Master's Degree in Mathematics, with teaching experience in undergraduate courses and certified in Python. Expertise in Java, Spring Framework, DevOPs, SQL, Hive, and UNIX shell scripting, with a focus on developing scalable solutions and streamlining data pipelines. Proven leadership in training contractors, overseeing batch processing, and collaborating with cross-functional teams to meet tight deadlines.

Work History

Developer

Charter Spectrum, Maryland Heights, Missouri

August 2020 - March 2024

- Oversaw daily batch processing for billing and usage data using TIDAL, managing hundreds of parallel jobs and ensuring timely execution to support critical business functions like fraud prevention.
- Investigated and resolved critical data ingestion and batch processing issues by analyzing Hadoop server stack traces, quickly identifying root causes and implementing solutions.
- Provided on-call Production support one week per month, troubleshooting real-time issues using Hadoop stack traces and delivering fast resolutions to minimize business impact.
- Led the development of the Daily Financial Feed (DFR) process by creating UNIX shell scripts to parse and load daily reports from Chase, American Express, and Discover into a Hive-based data lake, ensuring compliance with specification documents.
- Developed UNIX scripts to validate data integrity by comparing record counts between raw files and final database entries, ensuring accuracy in financial reporting.
- Developed SQL scripts in conjunction with Billing Department to provide history of customer usage before and after a change of address.
- Utilized GPG encryption and RSA with password-less authentication to securely download and process financial files from external servers.
- Authored documentation and conducted training sessions for new hires and contractors, ensuring smooth on-boarding and consistent support practices.
- Conducted code reviews for contractors and offshore resources, maintaining code quality and adherence to project standards.
- Collaborated on stages of systems development lifecycle from requirement gathering to production releases.

Full Stack Developer

Maritz, Fenton, Missouri

June 2012 - August 2016

- Designed and maintained Java-based web applications for high-profile clients, including Toyota, Honda, and American Family Insurance, to provide sales performance dashboards and reward tracking systems.
- Reviewed, verified, and organized user data with SQL scripts to send out physical rewards to sales competition winners.
- Developed a Spring-based solution for American Family Insurance that processed and stored user sales data in SQL Server, dynamically updating point balances and displaying results on employee dashboards.
- Engineered a robust Java application to parse and integrate large customer-provided sales reports into SQL Server, delivering a solution that was reusable and critical to meeting project deadlines.

- Ensured the on-time launch of the Mazda project by designing a modular, reusable Java application capable of processing multiple data sets, streamlining data integration and reducing future development effort.
- Wrote and maintained comprehensive documentation for Java applications, providing clarity for future enhancements and troubleshooting.

Education

Master of Arts in Mathematics December 2019

Saint Louis University at St Louis, MO

GPA: 3.23/4.00

Published Master's Thesis in Machine Learning. (<https://www.proquest.com/docview/2355988153>)

Bachelor of Science in Computer Science With Honors May 2012

University of Missouri – Columbia

GPA: 3.452/4.000

Certifications

PCAP – Certified Associate Python Programmer (October 2024)

Skills

- **Programming Languages:** Java, Linux/UNIX Shell Scripting, HQL, SQL, Python
- **Frameworks and Technologies:** Spring, Java Server Pages (JSP), Hadoop
- **Databases:** SQL Server, Oracle, Hive
- **Data Engineering:** Data Pipeline Development, Data Parsing, ETL Processes
- **Version Control:** Git, GitHub
- **DevOPs:** TIDAL (Job Scheduling)
- **Security:** Data Encryption, Secure File Transfer (RSA, GPG)
- **Workflow:** Agile, JIRA
- **Communication:** Documentation Creation, Training & Mentoring, Contractor Oversight

References

Project Manager at Charter Spectrum

Inderjeet Singh - inderjeet.singh@charter.com -
314-388-8639

Big Data Developer at Charter Spectrum

Thirupathaiah Pujari - pujari.thirupathaiah@charter.com -
720-645-7950

Team Lead at Charter Spectrum

Vinoth Udhayasuriyan - vinoth.udhayasuriyan@charter.com -
267-455-9318