Hasvanth (Hash) Kalyan Gundu

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457 Knollwood dr., Thousand Oaks, California - 91360

SOFTWARE ENGINEER - AI/ML

MACHINE LEARNING | DATA ENGINEERING | FULLSTACK DEVELOPMENT

Highly skilled Software Developer and Data Engineer with over 6 years of experience designing, developing, and optimizing robust software applications, specializing in AI/ML solutions and automation frameworks. Proficient in Node.js, Python, Java, and cloud-based infrastructure with expertise in machine learning frameworks, data validation tools, and test automation systems. Developed enterprise-level solutions such as Data Comparison Framework (DCF) and Test Automation Core (TAC) to streamline validation and testing workflows. Adept at implementing scalable data pipelines, building RESTful services, and leveraging big data tools for performance optimization. Experienced in Power BI reporting, SQL-based ETL pipelines using SSIS, and test automation using Selenium. Committed to delivering automation-driven, data-centric solutions to solve complex problems

PROFESSIONAL EXPERIENCE

Fannie Mae - Reston, VA   **Sept 2023 - Mar 2025**
Software Developer

Responsible for developing and maintaining a robust data validation framework while ensuring seamless integration between frontend and backend services.

Accomplishments:

- Designed, developed, and maintained the Data Comparison Framework (DCF), a critical tool for data validation, transformation, integrity checks, and automated report generation.
- Integrated Power BI and Tableau for dynamic reporting and visualization of DCF results, improving transparency and decision-making.
- Developed Test Automation Core (TAC), an AI-driven framework using Selenium and Python that streamlined test case execution, improved validation processes, and reduced manual effort.
- Leveraged NLP techniques to support natural language inputs for test automation, enhancing usability and user interaction.
- Built a communication layer using AWS Lambda and Node.js to enable seamless integration between the React front-end and Python-based backend services.
- Developed end-to-end ETL pipelines using Python, SQL, and AWS Lambda, ingesting, transforming, and validating large-scale financial datasets.
- Utilized SSIS to orchestrate SQL-based ETL tasks and integrate with upstream/downstream systems.
- Optimized RESTful APIs, reducing response times and improving application scalability and resilience.
- Applied advanced SQL techniques for data extraction, aggregation, and performance-tuned queries across distributed datasets.
- Integrated AWS services including S3, EC2, EFS, Lambda, and CloudWatch for scalable data storage, processing, and proactive monitoring.
- Implemented unit and integration tests using Mocha and Jest, increasing code reliability and deployment confidence.
- Led production support for DCF and TAC systems by conducting root cause analysis, triaging incidents, and meeting or exceeding SLA expectations.
- Acted as Scrum Master, leading daily stand-ups, sprint planning, retrospectives, and backlog grooming sessions, ensuring Agile best practices and timely delivery.
- Mentored junior developers and introduced best practices in TypeScript, Angular 16, and Node.js within Agile/Scrum ceremonies.
- Collaborated with cross-functional teams including QA, DevOps, and business stakeholders to ensure delivery of high-quality, scalable, and maintainable solutions.

Freddie Mac - McLean, VA   **Dec 2022 - Sept 2023**
Agile Development Professional

Contributed to the development of scalable server-side applications and enhanced data processing pipelines using modern tools and technologies. Managed Kafka-based streaming for ingesting and validating monthly payment data from subservicers, ensuring data integrity and seamless database integration.

Accomplishments:

- Contributed to the development of scalable microservices and RESTful APIs using Java Spring Boot and Node.js, supporting real-time financial data ingestion and transformation.

- Designed and managed services responsible for ingesting, validating, and persisting monthly loan data from subservicers into multiple databases.
- Developed and optimized data processing pipelines using Python and SQL, ensuring high performance and reliability.
- Built the front-end using Angular 11, enhancing internal tools for data review and monitoring.
- Managed Kafka-based streaming for ingesting and validating large volumes of subservicer data, ensuring consistency and data integrity.
- Collaborated with multiple teams to ensure smooth integration across platforms and services using Agile methodologies.
- Ensured end-to-end data quality by implementing robust validation checks and automating ETL workflows.
- Participated in production deployment cycles, providing support and ensuring timely bug resolutions.
- Led backlog grooming and sprint planning sessions, actively contributing to story estimation and feature breakdown.

Vsolvit - Ventura, CA   **July 2021 – Nov 2022**
Application Developer
Focused on building secure, scalable, and high-performing software solutions using modern frameworks and cloud technologies.

Accomplishments:
- Developed and maintained secure and scalable software solutions using .NET and React, including a mobile version of the project management app for internal users and upper management. This app allowed tracking of projects, including details such as project personnel, bids, bid amounts, requirements, and proposed timelines.
- Migrated on-premises databases to AWS RDS, improving data query performance and scalability.
- Orchestrated CI/CD workflows using Jenkins to automate deployments and improve team productivity.
- Refactored legacy .NET codebase to enhance maintainability and reduce technical debt.
- Implemented secure API authentication using OAuth to enhance data security.
- Integrated AWS services (ECS, Lambda) for improved cloud-based scalability.

Florient technologies - Dallas, TX   **May 2020 – May 2021**
Junior Software Developer
Developed applications and automated data processing solutions to improve efficiency and scalability for project management tools, leveraging Azure Cloud infrastructure for enhanced performance and scalability.

Accomplishments:
- Developed project tracking and scheduling applications using Python and React, fully integrated with Azure Cloud services to enhance accessibility and performance.
- Automated data backups and processing workflows using Azure Blob Storage and Azure Functions, ensuring high availability and reliability of critical data.
- Designed and implemented batch processing scripts in Python, integrating with Azure Data Factory for automated data transformation pipelines.
- Optimized database schema and migrated data workflows to Azure SQL Database, significantly improving query efficiency and scalability.
- Built a monitoring dashboard using Azure Monitor and Power BI, enabling real-time tracking of key performance metrics.
- Conducted load testing and performance optimization of applications using Azure DevOps, ensuring reliability under high user traffic.

EDUCATION

California Lutheran University - Thousand Oaks, CA
University of California Los Angeles - Los Angeles, CA
Bachelors in Computer Science

PROFESSIONAL SKILLS

- Programming Languages: Python, R, Java, C++, SQL, .NET
- Data Engineering: Apache Spark, Airflow, AWS Glue, Hadoop, Kafka, SSIS, SQL-based ETL
- Cloud Platforms: Azure, AWS, Docker, Azure Synapse, Azure Data Factory, Databricks (basic)
- Web Development: React, Angular, Node.js, RESTful APIs, Microservices
- Data Visualization & Reporting: Tableau, Power BI, Matplotlib, ggplot
- Machine Learning Tools: TensorFlow, Keras, PyTorch, Scikit-learn
- Automation & Testing: Selenium, Test Automation Frameworks (TAC), Mocha, Jest
- CI/CD & DevOps Tools: Jenkins, UCD, CloudFormation
- Version Control: Git, GitLab, Bitbucket
- Agile Methodologies: Scrum, Kanban
- Additional Skills: SDLC Expertise, Advanced SQL Query Optimization, Root Cause Analysis, Production Support