

ASRITHA VEMIREDDY

Software & Automation Engineer | Data Analytics | Cloud Technologies

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SUMMARY

Software and automation engineer with 3+ years of professional experience in software development, process automation, and data analytics within enterprise environments. Currently working as an RPA and data analyst at Fidelity Investments, developing automated workflows using Power Automate Desktop, Python, SQL, Snowflake, PowerShell, and Tableau to support Excel- and Outlook-based financial processes. Previously worked as a software and automation engineer at HCL Technologies, contributing to backend services, automation frameworks, and data transformation tasks in Agile teams. Strong foundation in backend engineering, workflow automation, and data processing, supported by a master's degree and experience working with international teams.

PROFESSIONAL EXPERIENCE

RPA & Data Analyst | Fidelity Investments — Texas, USA | Nov 2025 – Present

- Develop and maintain robotic process automation (RPA) solutions using Power Automate Desktop to automate financial and operational workflows within Fidelity Charitable, reducing manual Excel- and email-based processing.
- Design automation processes that extract, validate, and process large volumes of records from Excel spreadsheets and Outlook mailboxes, ensuring accurate handling of donor, transaction, and operational data.
- Leverage SQL and Snowflake to query, transform, and reconcile financial datasets used within automated workflows, supporting data accuracy and audit readiness.
- Build and enhance automation logic using Python (PyCharm) and PowerShell for data cleansing, file handling, system integrations, and exception management across end-to-end processes.
- Support continuous improvement initiatives by incorporating basic AI-driven logic and data validation techniques, and by collaborating with business stakeholders to optimize automation performance and reporting insights via Tableau.

Software & Automation Engineer | HCL Technologies — New York, USA | Jan 2025 – Nov 2025

- Developed and maintained software automation solutions using Python and scripting tools to streamline business processes and increase operational efficiency across teams.
- Engineered robust APIs and backend services with Python, integrating with SQL databases and cloud components to support automated workflows and data processing.
- Designed and implemented automated test frameworks and deployment scripts using Power Automate Desktop, PowerShell, and CI/CD practices, improving reliability and delivery speed.
- Collaborated in Agile cross-functional teams to build scalable software features, automate ETL and data transformation tasks, and maintain high code quality standards.

Web Development Internship | GaoTek Inc. — New York, USA | Aug 2024 – Jan 2025

- Worked on WordPress customization, focusing on WooCommerce, Contact Form 7, and Ajax search to improve site functionality and user experience.
- Supported web development tasks including data import, form integration, and writing custom code to meet project requirements.
- Collaborated with team leads in regular meetings and submitted daily reports to ensure alignment and timely completion of tasks.

Software Engineer | Rakuten Pvt Ltd — Bangalore, India | Sep 2021 – Dec 2022

- Developed a multi-threaded SQL operations interface using Java to optimize concurrent database transactions, improving system performance by 2x.
- Integrated MySQL and MongoDB backends with front-end modules (AngularJS) to enable real-time data processing and synchronization across teams.
- Streamlined internal data workflows, reducing SQL operation time by 30% and enhancing cross-team productivity through efficient data management.

TECHNICAL SKILLS

Data Visualization & BI: Tableau, Power BI, Excel (Advanced formulas, Pivot Tables), Power Query, Reporting Automation

Programming Languages: Python, Java, SQL, JavaScript (ES6+), REST APIs, PowerShell, HTML, CSS, React, Angular

Databases & Data Warehousing: Snowflake, MySQL, MongoDB, Hive, AWS S3, Azure, ELT, EDA

Cloud & DevOps: AWS (EC2, S3, EMR), Azure, Jenkins, Git, Agile (Scrum), SDLC, PyCharm, CI/CD

Automation & RPA: Power Automate Desktop, UiPath, Blue Prism, Workflow Scheduling, Excel & Outlook Automation, Exception Handling

EDUCATION

Pace University – MS, Computer Information Systems, GPA: 3.97 | New York, USA

Amrita Vishwa Vidyapeetham – B.Tech, Computer Science Engineering | Coimbatore, India