AISHWARYA RAMESH

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Summary

Dynamic Software Engineer with 3+ years of experience in web application, ETL and automation development. Integrated DevOps practices, reducing deployment times by 40% and improving operational efficiency. Focused on delivering high-quality software that meets business objectives

WORK EXPERIENCE

One Community Global | Software Engineer   Los Angeles, CA | Jun 2024 – Present

- Maintained internal and external software solutions to streamline operations and foster collaboration for One Community, using a tech stack comprising Node.js (Express), React, Redux, Reactstrap, and MongoDB.
- Implemented features for workforce monitoring, project and materials tracking, event management, participation tracking, educational program development, and collaborative decision-making processes.
- Managed CI/CD pipelines through CircleCI, with logging via Sentry.io, deploying on Heroku, and scaling production on Azure, ensuring high reliability and performance. Conduct code reviews and PR reviews for contributions from within the team and from the firm's inner source contributors
- Conducted rigorous unit and snapshot testing, reducing bugs by 40% and ensuring consistent delivery of high-quality software.

Infosys | Engineer I   Bangalore, India | Sept 2020 – Jul 2022

- Developed and deployed a real-time ETL pipeline using Python, SQL, AWS Kinesis, and AWS Lambda, processing over 10 million records daily with sub-second latency, resulting in a 30% reduction in data processing time for critical business operations.
- Architected and implemented serverless ETL workflows leveraging Python for data transformation and Java for processing, using AWS Glue and Redshift. This system handled 20 million records daily across XML, JSON, and CSV formats, reducing processing time by 50% and improving data accuracy by 15%.
- Engineered a real-time data ingestion and transformation pipeline using AWS Kinesis, AWS Lambda, and Amazon DynamoDB, processing over 30 million records per day with zero data loss, resulting in a 60% increase in data processing efficiency.
- Monitored and maintained data pipelines to ensure data quality and consistency across multiple sources, improving the reliability of business intelligence outputs by 20%.
- Mastered advanced SQL and window functions to optimize queries and enhance data analysis, improving performance by 25% and deriving deeper insights.
- Leveraged advanced Excel functions, such as VLOOKUP, INDEX-MATCH, and pivot tables, to analyse large datasets, automate reporting, and streamline data-driven decision-making processes, resulting in a 20% improvement in data accuracy and efficiency.
- Designed and implemented KPIs and performance metrics within BI tools, allowing for real-time tracking of business objectives and increasing the alignment of operations with strategic goals.

Old Dominion University | Software Developer - Research Assistant   Norfolk, VA | Jan 2023 – May 2024

- Developed a cutting-edge Digital Search Engine with Java, PHP and SQL, integrating Elasticsearch and Kibana. Achieved a 30% boost in search efficiency and 20% faster query response time, setting new industry standards.
- Led the development of a cloud-based web app on AWS using React.js, Node.js/Express.js, SQL, and Microservices. Implemented data visualization and dashboards, boosting user engagement by 40% and reducing data analysis time by 25%.
- Used WebSockets and server-sent events (SSE) to provide users with instant updates and alerts within web applications. Participated in DevOps practices by integrating CI/CD pipelines and automating deployment processes.
- Created interactive dashboards using Tableau and Power BI, increasing data accessibility and interpretation by 25%. Analysed key business metrics and trends by designing and optimizing data models in Power BI, enhancing reporting efficiency and reducing report generation time by 30%.
- Automated data extraction, transformation, and loading processes, reducing manual intervention by 40% and ensuring data consistency and reliability. Provided clean, well-organized data sets using open refine tool for analysis and model training, improving the efficiency of data science projects.
- Implemented data visualization techniques using Power BI and Tableau, enabling stakeholders to gain actionable insights from complex datasets, resulting in a 20% increase in data-driven decisions.
- Developed and maintained complex SQL queries to generate reports and insights for business intelligence, leading to a 15% improvement in decision-making accuracy.
- Conducted sentiment analysis on customer reviews of breweries using text summarization techniques, achieving 90% accuracy in sentiment classification.
- Employed indexing, partitioning, and other optimization techniques to improve data retrieval speeds and reduce costs by 20%. Ensured data accuracy, completeness, and integrity, reducing data-related errors by 30%.

SKILLS

Programming Languages: JavaScript, Python, R, C#, Java
Web Development: React, Redux, AngularJS, Node.js, Express, HTML, CSS, PHP, Material-UI, Bootstrap, AJAX, JSON, XML
Database Management: SQL, NoSQL, MySQL, Oracle SQL, Snowflake
DevOps and Automation: Jenkins, AWS, Kubernetes, Selenium, Cucumber, Jest, Enzyme, React Testing Library, CI/CD Docker
Data Analytics & ML: TensorFlow, PyTorch, Pandas, NumPy, SciPy, Scikit-learn, Keras, Matplotlib, Seaborn, Plotly, ggplot2 (for R), Hypothesis testing, regression analysis, Transformers (HuggingFace)
Other Tools and Technologies: Visual Studio Code, Eclipse, Jupyter Notebook, Git, GitLab, Postman, RESTful APIs, Elasticsearch, Kibana, Agile/Scrum, Software Development Life Cycle, System Design, Software Architecture, JIRA, Figma

EDUCATION

Old Dominion University, Norfolk, USA   Aug 2022 - May 2024
Master of Science – Computer Science

Visvesvaraya Technological University, Bangalore, India   Aug 2016 - Aug 2020
Bachelor of Engineering – Information Science and Engineering