

# Hasritha Reddy

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## SUMMARY

Data-driven and results-oriented **Software Engineer** with **5+ years** of experience in **web development, data engineering, and cloud computing**. Proficient in designing **scalable web applications**, optimizing front-end performance, and developing server-side applications using **Python, PySpark, Node.js, Express.js, and Next.js**. Skilled in **React.js, Angular**, and front-end optimization for high-performance applications. Experienced in **building ETL pipelines, processing large-scale datasets using PySpark**, and implementing **data workflows in AWS and Azure**. Strong background in **API development, microservices, authentication**, and performance tuning. Adept at collaborating with cross-functional teams in **Agile** environments to drive business insights, enhance system efficiency, and ensure seamless integration between **data pipelines and web applications**.

## EDUCATION

### Cleveland State University| Masters of Science in Management Information Systems

Relevant Coursework: Enterprise Database Design/Implementation; Emerging Tech; Business Networks; Project Management & Scheduling; Management of Innovation/Technology; Business Analysis; Advanced System Analysis & Design; Managing Network/Security Risk; Blockchain Technology; System Thinking and Model Dynamics; Customer Relationship Mgmt.; Managing Human Resources.

### Amrita Vishwa Vidyapeetham| Bachelor's in Electrical and Electronics Engineering

Relevant Coursework: Analog electronics; Electrical Machines and Drives; Electrical Energy& Renewable energy systems; Digital Signal processing; Data Structure and Algorithms; Data Management and Web Technologies.

## WORK EXPERIENCE

### Verizon

Software Engineer

Jan 2024 - Present

- **Developed & Maintained Web Interfaces** using **React and Angular**, ensuring a smooth and responsive user experience.
- **Integrated Backend with Front-End Interfaces** to synchronize user workflows, ensuring seamless **UI interaction** with backend data.
- **Optimized Serverless AWS Lambda Functions** to handle **API requests** efficiently, reducing latency and improving scalability.
- **Developed AWS Lambda Functions** using **Python and Node.js** to automate data extraction from internal **GET APIs** and populate **PostgreSQL tables** with extracted user metrics.
- Integrated **API Data** into **PG Admin -managed databases** by designing **Lambda functions** to **extract, transform, and load** critical business data for analytics.
- Optimized **AWS Lambda** Performance to enhance cost efficiency, minimize latency, and reduce operational costs while processing API responses.
- Implemented **ETL Pipelines** using **PySpark**, optimizing data transformation and ingestion processes for analytics
- **Orchestrated Data Pipelines** using **AWS Step Functions**, ensuring reliable ETL processes, automated retries, timeouts, and robust error handling for high availability.
- Monitored & Tuned Performance of **Step Functions and Lambda functions** for optimal data processing efficiency.
- Conducted **Analytics & Trend Identification** on internal user metrics using **Python (Pandas, NumPy, Matplotlib)** to generate insights, helping business teams improve operational efficiency
- Collaborated with **Business Stakeholders** to translate technical data into strategic insights for improved decision-making.
- Implemented **Role-Based Access Control (RBAC)** and **authentication for APIs** to enhance security.
- **Built Reusable UI Components** to standardize design consistency and improve **front-end efficiency**. Debugged and Fixed **UI/UX Issues** across multiple devices, ensuring seamless cross-platform performance.
- Integrated **API Data into UI for real-time updates**, improving user engagement and data visibility.
- Developed **RESTful APIs** using **Node.js and Express.js** to facilitate seamless communication between front-end interfaces and backend services.
- Created **API Endpoints (POST, GET, PUT, DELETE)** for internal team and member management on multiple platforms, enabling efficient bulk operations.
- Developed & Debugged **Web Interfaces using React and Angular**, improving UI functionality and fixing cross-platform issues.
- **Optimized Queries** to improve database performance, ensuring fast and reliable data access under high loads.
- Implemented **Security Measures** to safeguard sensitive user data and ensure **data integrity**.
- Led **UAT Testing Processes** to validate new **API endpoints, front-end integrations, and data workflows** before deployment.

- Created **Test Cases & Test Scripts** to ensure compliance with business requirements and identify potential bugs before release.
- Executed **UAT Scenarios for API, UI, and backend processes** and documented Test Findings & Resolutions to maintain quality standards and ensure seamless deployment of updates.
- Implemented **Robust Error Handling** across **Lambda functions and API endpoints** to ensure smooth failure recovery and reduced downtime.
- Set Up **Logging & Monitoring** using **AWS tools** to track system performance, detect anomalies, and troubleshoot failures proactively.
- Used **Jenkins** for deploying applications, automating the **CI/CD pipeline** for continuous integration and delivery, ensuring fast and reliable application updates.
- Collaborated in **Agile Methodology**, working closely with cross-functional teams in sprint cycles, conducting regular stand-ups, and ensuring timely delivery of features and bug fixes.

## Byju's

India

Software Engineer

June 2018 – May 2022

- **Optimized Web Application Performance** by leveraging **React.js** for monitoring dashboards, reducing issue resolution time by **25%** and enhancing system efficiency.
- **Developed & Integrated Performance Tracking Tools**, leading to a **50% faster issue identification**, improving system responsiveness.
- **Implemented Secure Authentication Systems** using **OAuth and JWT** with **Next.js**, ensuring **role-based access control** and **route protection**.
- **Enhanced System Uptime by 15%** through proactive monitoring, utilizing **React.js and Node.js** to generate actionable insights for continuous improvement.
- **Led UI/UX Training Sessions**, boosting team proficiency in **JavaScript, HTML, and CSS**, improving front-end development productivity.
- **Implemented ETL Pipelines** using **PySpark and Pandas**, improving data processing efficiency and reducing transformation latency.
- **Streamlined Development Lifecycle** by configuring **transport management systems**, ensuring smooth transitions from development to production environments.
- **Developed RESTful APIs and Server-Side Applications** using **Python (Django, Flask), Node.js and Next.js**, improving performance and scalability., improving performance and scalability
- **Implemented Microservices Architecture** for modular, scalable backend services, ensuring efficient system communication and maintainability.
- **Collaborated Across Teams & Clients** using **Agile methodologies**, ensuring clear communication and seamless project execution.
- **Worked with ML-Driven EdTech Applications**, analyzing student learning patterns to **enhance personalized training models** for concept clarity.
- **Built and Optimized Machine Learning Pipelines** using **Python (scikit-learn, TensorFlow)** for predictive analytics on student learning patterns.
- **Integrated & Managed Customer Data** using **Salesforce CRM**, enabling **data-driven decision-making** for user engagement and retention strategies.
- **Optimized Database Performance** in **PostgreSQL and MySQL**, improving query efficiency and reducing processing time.
- **Built ETL Pipelines** for ingesting, transforming, and managing student performance data, improving reporting accuracy for educational insights.
- **Implemented Microservices Architecture** for modular, scalable backend services, ensuring efficient system communication and maintainability.
- **Deployed and Scaled Applications on Azure**, utilizing **Azure Functions, Azure App Services, and Azure SQL Database** for efficient application performance.
- **Integrated Azure Active Directory (AAD)** for **secure authentication and access management**, ensuring compliance with enterprise security standards.
- **Managed Server-Side Operations in Azure**, optimizing backend services with **Azure Logic Apps and Event Grid** for automated workflows.
- **Implemented CI/CD pipelines** using **Jenkins** to automate deployment and testing, ensuring seamless integration and faster delivery cycles in an Agile environment.
- **Collaborated in Agile Methodology**, working closely with cross-functional teams and gave timely updates to the stakeholders

SKILLS

Category	Technologies / Tools
Programming & Development	JavaScript (ES6+), TypeScript, Python, R, C#, .NET, Node.js, Express.js, Next.js, React.js, Angular
Web Development	HTML5, CSS3, SASS, Bootstrap, Tailwind CSS, Material UI
Database Management	MySQL, PostgreSQL, MS Access, MongoDB, Oracle
Data Engineering	ETL (Extract, Transform, Load) processes, Data Warehousing (Teradata, Snowflake), Big Data (Hadoop, Spark), Data Management & Processing
Machine Learning	scikit-learn, TensorFlow, PyTorch
Data Analysis & Visualization	Tableau, PowerBI, Statistical Analysis, Python (Pandas, NumPy), SAS Platform
API Development	RESTful APIs, GraphQL, OAuth, JWT Authentication
Microservices & Backend	Node.js, Express.js, Serverless Architecture, AWS Lambda, Azure Functions
Cloud Platforms	AWS (Lambda, Step Functions, S3, EC2, RDS), Azure (Azure Functions, App Services, Active Directory)
DevOps & CI/CD	Jenkins, Docker, Kubernetes, GitHub Actions
Monitoring & Performance	AWS CloudWatch, Azure Monitor, Logging & Debugging Tools
Security & Authentication	Role-Based Access Control (RBAC), OAuth, JWT, Azure Active Directory
Testing & Debugging	Unit Testing, Postman, Jest, Mocha, Cypress
Project Management & SDLC	Agile, SCRUM, Trello, JIRA, Kanban, Waterfall Model, MS Project, WBS, User Stories, User Acceptance Testing, Risk Assessment, Risk Management, Mitigation Strategies
Version Control	Git, GitHub, Bitbucket
Others	Figma, Lucid chart, Visio, Vensim, Excel, Document Management System (SharePoint)