

Jagath K R

Senior Software Engineer | Full Stack FinTech | AWS

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SUMMARY

Full Stack Web Developer / Software Engineer with 3+ years of experience building scalable web applications and cloud-native FinTech solutions. Apply Java, JavaScript, Node.js, React, Laravel, and AWS/DevOps to design low-latency, high-throughput systems and complex transaction workflows. Architect AI-driven products and optimize system performance to reduce latency and elevate user experience in dynamic, global product teams.

SKILLS

- **Skills:** Scalable System Design (Monolith → Microservices), Low-Latency API Design, Distributed Systems Fundamentals, Database Design & Indexing Strategies, Asynchronous Processing & Event-Driven Design
- **Frontend & Web Development:** React.js, Angular, JavaScript (ES6+), HTML5, CSS3, Next.js, Java
- **Backend Engineering & APIs:** Node.js, Python, Express.js, RESTful API Design, WebSockets
- **Data Engineering & Databases:** SQL, MySQL, PostgreSQL, MongoDB, NoSQL
- **DevOps & Engineering Tools:** Git, GitHub, GitLab, Git Actions, Docker & Kubernetes
- **MLOps & Cloud for AI:** AWS: EC2, S3, Lambda, RDS, Aurora, Glue, Step Functions, GCP: Vertex AI, BigQuery, Infrastructure as Code: Terraform, AWS CloudFormation, Kubernetes (deployment & scaling basics)

WORK EXPERIENCE

Senior Software Engineer | Kess

Nov 2025 – Present • Remote, Singapore

- Architected an AI-driven culture and leadership assessment platform with OpenAI APIs, Python, Node.js, and React.js, ensuring secure, low-latency, scalable access for global enterprise users.
- Architected HLD and LLD to migrate monolith to microservices, event-driven architecture, improving scalability, fault isolation, and maintainability for high-concurrency enterprise workloads.
- Engineered LLM-powered assessment workflows—including adaptive question generation, automated scoring, sentiment analysis, and leadership/culture insights—enabling consistent, unbiased, and fully automated evaluation across enterprise programs.
- Owned AWS cloud infrastructure and DevOps, implementing cost-conscious, highly available deployments with EC2, Load Balancers, S3, RDS/DynamoDB, Lambda, and CloudWatch, while integrating secure payments, role-based access control, and asynchronous background jobs for notifications, reporting, and subscription lifecycle management.

Software Engineer | Finfoolab Technology

Nov 2023 – Oct 2025 • Bengaluru, India

- Led end-to-end design of TradeAction options and futures interface, building low-latency, scalable workflows from strategy creation to broker-ready orders for India's top trading platforms.
- Engineered cron-based, event-driven pipelines and signal transaction apps to convert strategies into real-time trading signals and live orders, boosting reliability and throughput in high-volume environments.
- Optimized backend performance for trading strategies, equity symbols, and transactions using Node.js, React.js, Angular, PHP, and MySQL/SQL, cutting query latency and accelerating RMD table processing.
- Designed UAT cloud infrastructure with modern DevOps practices and fintech security, then automated emails and cron-based jobs for notifications, reports, and subscription lifecycle, improving scalable, reliable deployments.
- Optimized system performance and cloud costs through caching, async queues, monitoring, and autoscaling, reducing latency and improving availability during large-scale enterprise assessment cycles.

AWS Data AIA INTERN | Cognizant Technology Solutions

Feb 2023 – Aug 2023 • Chennai, India

- Engineered an end-to-end ETL pipeline with **AWS Glue**, **AWS Lambda**, and **AWS Step Functions**, automating error handling and parallel execution to boost large enterprise dataset throughput.
- Optimized **AWS RDS** storage and querying with advanced **SQL** transformations and indexing, reducing latency for AI-driven dashboards and accelerating analytics-ready access for stakeholders.
- Implemented scalable AWS data workflows with automated validation, standardized schemas, and robust monitoring, enhancing

data quality, availability, and consistency for high-volume BI and machine learning workloads.

EDUCATION

Bachelor of Science in Computer Science | Muthayammal Engineering College

8.2 · Aug 2019 - May 2023 · Salem, Tamil Nadu, India

Higher Education in Computer Science | Shri Vidhya Bharathi Matric Higher Secondary School

67 Percentage · Jul 2017 - Mar 2019 · Tamil Nadu, India

Secondary Education in State Board | Nalandas Matric Higher Secondary School

84 Percentage · May 2017 · Tamil Nadu, India

CERTIFICATIONS

Career Camp-Data Structures in JAVA | Coding Ninjas

Data Analyst | Google

Certified Cloud Practitioner | AWS

Google Vertex AI Application Development Certification | Google Cloud | Jan 2026

AWARDS

Google Vertex AI Application Development Certification | Google Cloud | Jan 2026

PROJECTS

LLMops Pipeline for Generative AI Applications | Software Engineer

- Engineered an end-to-end LLMops pipeline benchmarking GPT, Claude, LLaMA, and DeepSeek on accuracy, latency, cost, and hallucination rate for data-driven production generative AI model selection.
- Implemented an automated LLM evaluation framework in Python using LangSmith / TruLens, Pandas, and Matplotlib, generating reusable test datasets, prompt version histories, and comparative scorecards across proprietary and open-source models.
- Integrated AWS CloudWatch with LLM services to monitor end-to-end performance and infrastructure metrics, reducing average response latency by 25% and enabling real-time observability into model health and drift.
- Built interactive analytics dashboards and reporting workflows using Python to track accuracy trends, hallucination frequency, and per-request cost, reducing experimentation time by 40% and improving prompt iteration quality.

AI Survey Builder Application | Software Engineer

- Developed a custom AI-powered form and survey builder enabling admin and users to generate tailored survey forms dynamically.
- Built frontend with Next.js and backend with Node.js to enable efficient rendering and RESTful APIs.
- Implemented secure authentication and role-based access for admin and user panels.
- Deployed on AWS EC2 with Apache2, configured custom domain via Hostinger, and used MongoDB for flexible form schema management.

AI-Powered Stocks And Financial News Research Tool | Software Engineer

- Designed and developed a user-friendly research platform leveraging LangChain, OpenAI embeddings and FAISS for efficient financial data retrieval.
- Built a Streamlit-based interface for intuitive user interaction, enabling real-time Q and A with source references.
- Implemented features for URL input and automated processing using UnstructuredURL Loader, persistent indexing with FAISS, and embedding generation via OpenAI API.
- Streamlined deployment and ensured maintainability with Streamlit and Python.

VOLUNTEERING

Technical Team Lead | FinfoLab Technologies

Mar 2024 - Oct 2025 · Bengaluru, India

Promoted within six months to lead a critical application, owning task planning, technical decisions, and coordination with senior engineers to ensure timely, high-quality delivery.