Karthik Raj Ramalingam

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Objective

I am a dedicated and meticulous Backend Developer with 3+ years of experience in creating RESTful APIs with Spring Boot and implementing microservices architecture. I have strong skills in SQL operations, cloud platforms (Azure and AWS), and containerization using Docker and Kubernetes. I have also contributed to project management activities, such as requirement gathering, task planning, sprint reviews, and stakeholder communication. I am currently enhancing my knowledge of Angular and JavaScript and aim to join a dynamic team to transition into a full-stack developer role.

Experience

- **Freelancing web developer**   Jan 2025 - Present
  - Developed websites and web apps using HTML, CSS, JavaScript, and React.
  - Handled full-stack development for small business clients.
  - Integrated payment gateways and third-party APIs.
  - Deployed applications using Firebase and AWS.

- **FINTUPLE Technology Private Limited (Chennai, India)**   July 2022 - Dec 2024
  Back End Developer and Junior data analyst
  - Developed and maintained scalable Spring Boot applications with integrated data processing components, ensuring high performance, responsiveness, and analytical capability.
  - Collaborated with cross-functional teams to analyze functional and data requirements, enabling the delivery of innovative, data-driven solutions.
  - Implemented RESTful APIs to streamline communication between services and support data exchange for real-time analytics and reporting.
  - Utilized AWS and Azure DevOps for efficient deployment, CI/CD, and hosting of data-centric applications, ensuring continuous delivery of insights.
  - Orchestrated containerized applications using Kubernetes and Docker, optimizing both resource utilization and scalability of backend and analytics workloads.
  - Worked with relational databases, including MySQL, to ensure efficient storage, high data integrity, and support for analytical queries and reporting.
  - Implemented and maintained Microsoft Server solutions, contributing to a stable and high-performing environment for backend services and data operations.

  ### Technologies Used:
  - Backend: Spring Boot JAVA
  - Deployment: AWS, Azure DevOps, Kubernetes, Docker
  - Databases: MySQL workbench, SQL Server Management Studio (SSMS)

  ### Role and Contributions:
  - Spearheaded the development of scalable Spring Boot applications and RESTful APIs to support robust data processing, secure third-party integrations, and efficient system interoperability.
  - Collaborated with cross-functional teams to gather data and functional requirements, enabling tailored backend solutions and insightful analytics.
  - Designed, managed, and optimized relational database schemas (MySQL, SQL Server), ensuring high data integrity, performance, and accessibility for both backend operations and analytical use cases.
  - Developed automated data pipelines and integrated data collection mechanisms to support real-time analytics and business intelligence efforts.
  - Built and maintained interactive dashboards and reports using SQL and backend services, enabling data-driven decision-making for stakeholders.
  - Utilized AWS, Azure DevOps, and Kubernetes for deploying scalable, data-intensive services, while ensuring high availability and performance through CI/CD and container orchestration.
  - Employed version control with Git and maintained secure, well-documented codebases to support collaborative development and reproducibility in both backend and data analysis workflows.

Outcome:
- Delivered scalable, high-performance applications by implementing industry-standard practices. Successfully integrated external APIs and optimized software functionality, contributing to user satisfaction and overall project success.

- **Genome International Private Limited**   January 2022 - June 2022
  Data Analyst

Responsibilities & Contributions:
- Developed a web-based graphical user interface for visualizing and analyzing multidimensional cancer genomics data.
- Designed for biomedical research and hospital use.
- Integrated genomic and clinical data to provide comprehensive graphical summaries.

Technologies Used:
- Frontend: ReactJS
- Backend: PySpark

Role and Contributions:
- Led the backend development using PySpark to handle large datasets.
- Collaborated with frontend developers to ensure seamless data integration and user experience.
- Implemented various data visualization techniques to facilitate user interaction and analysis.

Outcome:
- Successfully created a user-friendly portal that enhanced the efficiency of genomic data analysis for biomedical researchers.

Projects

- **Backend Developer | Fintuple Technology | Chennai | [July 2023] – [December 2024]**

  Project Management Contributions:

  Actively participated in project planning, effort estimation, and sprint backlog grooming. Coordinated with business stakeholders and cross-functional teams to gather requirements and define project goals.

  Assisted in tracking project progress, identifying risks, and ensuring timely delivery of milestones. Conducted sprint reviews and retrospectives to drive process improvements and maintain quality standards.

  ICICI Securities – Portfolio Management System (PMS)

  Designed and developed Portfolio Management System (PMS) APIs for high-net-worth investors, enabling real-time investment tracking and automated portfolio rebalancing. Integrated market data providers to enhance financial analysis and decision-making.

  Built customized investment strategies and risk management modules for diverse asset classes. Developed automated reporting and analytics dashboards, providing clients with insights into their portfolio performance.

  Optimized SQL queries and implemented caching mechanisms to improve system performance. Deployed and managed PMS services on AWS/Azure using Docker and Kubernetes.

  Ensured SEBI compliance and implemented strong security measures for financial data protection.

- **Backend Developer | Fintuple Technology | Chennai | June 2022 – June 2023**

  AXIS Bank – Wealth Management & Investment Services

  Developed REST APIs for AXIS Bank's wealth management platform, facilitating seamless investment.

  Designed automated reporting systems to provide customers with personalized investment insights. Deployed microservices on AWS using Kubernetes and Docker, ensuring high availability and scalability.

Motilal Oswal – Portfolio Management & Trading Platform

Developed portfolio risk assessment tools, integrating market trends and AI-driven analytics. Implemented secure authentication and encryption protocols to safeguard investor data.
Optimized database queries for MySQL and SQL Server, improving execution speed and reducing latency. Integrated third-party APIs for automated order execution and market monitoring.

HDFC Bank – Loan & Insurance Management System

Developed a loan origination and approval system, streamlining the lending process. Created insurance policy management APIs, enabling customers to buy, renew, and claim policies digitally.
Integrated OCR and AI-based document verification for automated KYC and fraud detection. Automated report generation and audit tracking for internal banking operations.

Trust – Financial Analytics & Investment Management

Built data analytics dashboards for Trust's investment advisory services, offering predictive insights on market trends. Developed automated asset allocation models to optimize client portfolios.
Designed secure API integrations with stock exchanges for real-time data retrieval.Implemented multi-factor authentication (MFA) for enhanced financial data security.

Education

- **Sastra Deemed to be University**   2019 - 2022
  Master of Computer Applications
  7.3

- **Jamal Mohamed College**   2016 - 2019
  Bachelor of Computer Applications
  6.2

Skills

- Programming Languages: Java, python
- Backend Development:Spring Boot REST API, Microservices, Integrations with External APIs, Spring Boot with Spring Cloud
- Database Management:SQL Server Management Studio (SSMS), Azure SQL, Views and Queries
- Cloud Platforms: Azure (Kubernetes, App Configuration, Storage), Amazon web service.
- Containerization and Orchestration: Docker
- Authentication and Authorization: Keycloak
- Collaboration: Agile methodologies, Cross-functional teamwork
- Frontend Development (Learning): Angular, JavaScript

Achievements & Awards

- Certificate course : web design and development
- Certificate course : JAVA
- TCS -ION Career edge certificate for Young professional.

PERSONAL INFORMATION

- Date of birth : February 15,1999
- Age : 26
- Gender : Male
- Father's name :Mr.C.Ramalingam
- Birth Place : Tiruchirapalli, Tamilnadu, India

Declaration

- I hereby declare that the information provided above is true and accurate to the best of my knowledge and belief.