

PROFESSIONAL EXPERIENCE:

Software Engineer | Quad K Technologies

Jan 2024 – Present

- Engineered microservices using Java and Spring frameworks (Spring Boot, Spring Data JPA, Spring MVC, and Hibernate ORM, Kotlin) achieving a 20% reduction in development time and a 20% increase in system efficiency.
- Enhanced a reporting API project by creating a generic data procurement API in Java, with downstream integration into Power BI and Tableau dashboards, reducing development efforts from 2 weeks to 1 day.
- Optimized reporting systems by building a MySQL-backed API layer with FastAPI, automating insights delivery into Power BI and Tableau, and reducing manual data handling by 90%.
- Architected and deployed scalable backend systems with Spring Boot, improving resource utilization and ensuring system stability across multiple high-traffic applications.
- Streamlined the provisioning of Azure IaaS virtual machines utilizing Terraform templates, facilitating the deployment of virtual machine scale sets in production environments.
- Resolved high-priority client issues by analyzing debug logs, security group settings, and Terraform configurations, achieving a 95% client satisfaction rate.
- Developed 3 high-performance web applications using ReactJS, Angular (Angular 14 and RxJS), Vue.js, Node.js, and RESTful API integration, resulting in a 30% increase in usability and a 25% improvement in frontend-backend interaction efficiency.
- Developed interactive dashboards and reports in Power BI and Tableau by integrating APIs and MySQL data sources, enabling real-time insights for stakeholders and reducing manual reporting by 90%.

Software Development Engineer | Amazon

Jul 2022 - Jan 2024

- Led and launched 3 new region builds for efficient resource management across HYD, ZRH, and ZAZ regions for AWS Elastic Block Store (EBS), improving overall system coordination.
- Automated deployment pipelines using AWS CDK and LPT (Ruby on Rails packages) with Java, Node.js, TypeScript, and **Python**, reducing the region build process from 3 weeks to just 1 week.
- Led a critical customer escalation project resulting in a 50% reduction in escalations related to snapshot copy limits for AWS Elastic Block Store (EBS).
- Managed AWS CloudFormation for Infrastructure as Code (IaC), improving provisioning and management processes. Integrated Amazon Connect with internal systems using Java, FastAPI, and AWS Lambda functions to automate data exchange and enhance workflow efficiency.
- Designed, built, and maintained complex AWS infrastructure to host and support applications, ensuring scalability, availability, and security using services such as Amazon EC2, EBS, RDS, and S3.
- Established system monitoring by configuring and developing 50+ AWS CloudWatch alarms and custom monitors, using Ruby on Rails applications, Java microservices, and Python automation tools (Boto3, AWS CLI, Terraform) for proactive monitoring and alerting.
- Configured alerts for critical system events, such as CPU & disk usage and API service failures, resulting in a 30% reduction in downtime.
- Led the Metering Auditor project, overseeing the creation of design documentation, implementation of the solution, and execution of integration tests, resulting in a 30% improvement in data accuracy and a 25% reduction in processing time, followed by successful deployment through Code Pipeline.
- Facilitated over 100 code reviews, ensuring high quality, consistency, and adherence to coding standards.

Software Engineer | IVY Comptech, India

Jun 2018 - Jan 2021

- Deployed Kubernetes as the container orchestration platform to deploy applications across 15 cloud providers, reducing deployment time from 48 hours to just 15 minutes, while ensuring high availability at scale.
- Configured 500+ servers across data centers to migrate servers from UK to Dublin by implementing CI/CD pipelines using Docker, Kibana, Ansible, Kubernetes, Java, Jenkins, and Python for seamless microservices deployment.
- Key contributor to the 'Boris' project, which achieved seamless data center migration from Gibraltar to Dublin within a 3-hour downtime window with zero data loss.
- Automated 80% of administrative tasks and system management on Windows servers using PowerShell and Python scripting, improving task efficiency and reducing human error.
- Increased speed by 20% by automating manual tasks on UNIX/Linux servers using shell scripts and python scripts.

- Executed Grafana to create alerts for system metrics, serving as an extensible monitoring system for effective system management.
- Generated robust Java applications using Spring Boot, Spring MVC, Junit, and Mockito.
- Efficiently debugged and troubleshoot software issues while on-call, consistently identifying, and resolving problems promptly.

Software Engineer Intern | *Emefocus*

Dec 2016 – Jan 2017

- Initiated server-side logic and APIs using Java, Node.js and Express to handle data processing and communication.
- Incorporated MongoDB for database management to store and retrieve user data, such as attendance records and assignment submissions.
- Integrated user authentication and authorization using JWT (JSON Web Tokens), enhancing system security and user data protection while streamlining access control processes.
- Designed a school website to enhance student and teacher interaction and streamline academic processes.
- Created modules for students and teachers to track and manage attendance.
- Leveraged Angular to build a single-page application (SPA) that improved page load speed by 40%, ensuring seamless navigation and a smooth user experience.
- Implemented dynamic functionality using JavaScript and jQuery, resulting in a 25% improvement in user interaction and a 20% increase in page responsiveness.
- Leveraged HTML, CSS3, JavaScript, and Bootstrap to design a responsive and visually appealing user interface.
- Conducted testing to ensure cross-browser compatibility and bug-free performance.

PROJECTS:

AI-powered Resume Screening with RAG:

Sep 2024 – Dec 2024

- Developed an intelligent resume screening system using Hugging Face RAG and spaCy for resume parsing and skill extraction, matching candidates with job descriptions. Used **Flask** for backend development and **MongoDB** for storing resumes, enabling fast retrieval and scalable data management. Optimized the model to handle diverse resume formats and fine-tuned it for domain-specific job roles, improving recruitment efficiency and candidate ranking.

TECHNICAL KNOWLEDGE:

- Programming Languages: Java, Python, SQL, Shell scripting, JavaScript, Ruby on rails, TypeScript, Kotlin, Node.js.
- Backend Technologies: Spring, Servlets, JSP, EJB, JDBC, JMS, JNDI, Webservices, Sping Boot, Hibernate, JPA, FastAPI, Maven, Mockito.
- Web Technologies: React JS, Angular (RxJS), Vue.JS, (micro front End), Servlets, JSP, JSTL, AJAX, REST APIs, GraphQL, Apollo.
- Frameworks: Angular, React, Node.js, Junit, Bootstrap, Spring MVC, Spring Boot, Hibernate/JPA, JSF, Tiles, Selenium, JUnit5, TestNG, Cucumber (BDD), TensorFlow, PyTorch, scikit-learn.
- Databases: MongoDB, SQL, MySQL, Oracle, PostgresSQL, Cassandra, Snowflake, DynamoDB, Redis.
- Cloud & DevOps: AWS (EC2, EBS, RDS, S3, CloudFormation, Lambda), Terraform, Docker, Kubernetes, Jenkins, Azure, Helm, Ansible, Postman, Google Cloud Platform (GCP).
- Developer Tools: Git, Docker, AWS, Jenkins, BigQuery, Snowflake, Grafana, Datalog, Azure, GCP, CircleCI, GitLab CI.
- Monitoring & Logging: ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, Datadog, Grafana, Splunk.
- Messaging & Caching: Redis, RabbitMQ, Kafka, Kafka Streams, Apache spark, Apache Pulsar.
- Other skills: Low level design & High-level design, Object Oriented programming, Microservices, Distributed systems.
- Security: OAuth2, JWT (JSON Web Tokens).
- Data Visualization & BI Tools: Power BI, Tableau

Certifications:

- Oracle Java SE 8 Programmer
- Microsoft Azure AI Engineer Associate (ai102)
- Microsoft Azure Fundamentals (az900)
- Microsoft Azure AI Fundamentals (ai900)
- AWS Certified AI Practitioner

Education:

University of North Carolina at Charlotte: Master's in computer science

Vellore Institute of Technology: Bachelor of Technology in Computer Science

