Kolla Prakyath

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Summary

Accomplished Software Engineer with **5+ years** of experience in developing scalable applications using **Python, Java, C++,** and **JavaScript** with frameworks like **Spring Boot, Django, Flask,** and **React.js**. Proficient in leveraging cloud platforms, including **AWS (EC2, Lambda, RDS)** and **Azure (AKS, App Services)**, to build robust solutions and streamline **CI/CD pipelines** with **Docker, Kubernetes, Jenkins,** and **Terraform**. Skilled in designing **RESTful APIs** and **microservices** architecture, delivering high-quality software aligned with business goals.

Experience

Senior Full Stack Developer   January 2023 – Present
Tiaa   *Charlotte, NC*

- Spearheaded **production support** operations as the primary contact, collaborating with **Agile** teams to resolve critical issues, achieving **99.9%** uptime and applying strong **problem-solving** skills to overcome challenges.
- Led the migration of legacy front-ends to a micro-front-end architecture using **Angular**, employing **lazy loading, Angular modules**, and a component-based design to enhance modularity and reduce load times by **30%**.
- Developed a scalable **microservices** architecture with **Spring Boot**, integrating it with an **Oracle** database using **Hibernate** and **RESTful APIs**, boosting system scalability by **35%** and cutting data retrieval time by **25%**.
- Enhanced **Single Sign-On(SSO)** security by implementing **Ping Access** and **PingFederate**, reducing unauthorized access incidents by **20%** and streamlining authentication for over **10,000** users.
- Streamlined real-time monitoring with **Splunk**, reducing incident response times by **30%** and improving overall system reliability.
- Upgraded applications from **Java 11** to **Java 17**, leveraging features like **sealed classes** and **pattern matching** to enhance maintainability, boost performance, and align with modern development standards.
- Automated **ETL** workflows using **Quartz Scheduler**, integrating email alerts for failures, improving monitoring efficiency by **30%** and ensuring timely data availability.
- Migrated five applications from **Apache Tomcat** virtual servers to **OpenShift AWS**, utilizing **Docker** for containerization and **Kubernetes** for orchestration, by integrating **Jenkins** for **CI/CD pipelines**, improving deployment efficiency by **40%**.
- Optimized database structures by developing **tables, procedures, functions, and triggers** in **PL/SQL**, improving query performance by **20%** and ensuring efficient data retrieval for critical operations.
- Executed the migration of **10 TB** of data from **Hadoop** to **Snowflake** optimizing **data warehousing** solutions, improving data accessibility and reporting efficiency by **25%** through optimized **ETL** and validation.
- Built a **machine learning** model with supervised algorithms for sentiment classification and feedback categorization on customer reviews, achieving **99%** accuracy.
- Integrated **Python-based ML** pipelines with **Flask APIs**, applying **NLP** techniques like **TF-IDF, Word2Vec, GloVe, and BERT** to generate actionable insights from customer reviews.
- Implemented file and directory management **Unix** scripts, saving **20+** hours weekly in routine maintenance operations.
- Automated repetitive system tasks using **Unix shell** scripts, improving efficiency and reducing manual effort by **50%**.

Full Stack Java Developer   June 2022 – December 2022
JP Morgan Chase CO.   *Charlotte, NC*

- Developed responsive web applications using **React & Tailwind CSS**, enhancing user engagement by **30%**, and utilized **Next.js** for server-side rendering to accelerate page load speeds by **40%**.
- Integrated frontend with a scalable backend built with **Node.js & Express.js** through **GraphQL APIs** for seamless communication, and **MongoDB** for efficient back-end data management.
- Implemented secure authentication using **OAuth 2.0**, improving access control and reducing login response times by **25%** while leveraging **AWS Secrets Manager** for robust data management.
- Authored **Test-Driven Development (TDD)** with **Jest & Cypress**, achieving **90%** test coverage by identifying and resolving critical issues early in the development cycle.

- Developed scalable and high-performance software solutions by leveraging **Python** for backend development, **Django** for web frameworks, and **MongoDB** for efficient **NoSQL** database management.
- Deployed the application on **AWS** using services like **EC2, S3** for hosting, while leveraging **CodePipeline** for CI/CD, **CodeBuild** for building and testing and **CodeDeploy** for seamless deployments to **EC2** instances and used **Lambda** for serverless computing.
- Optimized application monitoring with **Amazon CloudWatch** by configuring custom metrics and automated alerts, reducing incident response times by **40%** and enhancing system reliability.
- Leveraged **GCP** services, including **Compute Engine** for scalable infrastructure and **BigQuery** for efficient data analysis, reducing query processing time by **30%**.

Software Engineer June 2018 – July 2021
Wipro Limited *Hyderabad, IND*
- Demonstrated efficient data-driven applications using **Python, Flask,** and **MySQL**, optimizing query performance and reducing processing time by **20%**.
- Engineered dynamic single-page applications **(SPAs)** using **Angular, HTML5, CSS3, Bootstrap & JavaScript** with a modular architecture and reusable components, reducing load times by **25%** and boosting user engagement.

- Developed a **J2EE** application with **Spring MVC**, leveraging design patterns like **MVC, DAO and Business Delegate** to improve maintainability by **30%**.
- Enhanced performance and code readability by utilizing **Java 8** features including **(lambda expressions, streams, functional interfaces)**.
- Built and integrated **SOAP APIs** with a **Spring Data JPA** backend, optimizing interactions with a **PostgreSQL** database, improving data access performance by **30%**, and ensuring secure and reliable communication.
- Implemented **JWT**-based authentication for robust access control and integrated **Apache Kafka** for real-time messaging, enhancing scalability and reducing message latency by **25%**.
- Engineered a resilient cloud infrastructure using **Azure Kubernetes Service (AKS)**, **Azure Load Balancer** and **Azure Disk Storage**, achieving **99.99%** availability and enabling seamless scaling during peak traffic.
- Deployed scalable applications on **Azure App Services**, employing **Azure Monitor** and **Log Analytics** for real-time monitoring and **Azure DevOps** to automate **CI/CD** workflows & **Azure Functions** for serverless computing, increasing deployment efficiency by **30%**.
- Conducted unit testing using **JUnit, Selenium and Mockito**, achieving **95%** test coverage and resolving critical bugs early in the development lifecycle.
- Implemented build automation **Unix** scripts for compiling and deploying projects, cutting build times by **30%** and ensuring consistent outcomes.

TECHNICAL SKILLS

J2EE Technologies: Servlets, JSP, JavaBeans, JDBC
Build /Other tools: MS Visio, Maven, Gradle, Cucumber, Kibana, SonarQube, Postman, Swagger, Service Now
Version Control Tools: Git, GitHub, Git Bash, Git Lab, Bit Bucket
Core Languages: Python, Java, C++, JavaScript, C#, SQL
Web Development Frameworks: Spring Boot, Django/Flask, Angular, React.js, HTML5, CSS3, TypeScript, Spring mvc, jQuery, Ajax, JSON, XML
Cloud Platforms & Services: AWS(EC2, S3, Lambda, RDS, DynamoDB), Microsoft Azure(Azure App Services, Azure Functions, Azure Kubernetes Service (AKS)), GCP(App Engine, Compute Engine, BigQuery), Apache Tomcat
DevOps & CI/CD: Docker, Kubernetes, Jenkins, Terraform
Databases & Data Engineering: SQL(MySQL, PostgreSQL, SQL Server, Oracle), NoSQL(MongoDB, Cassandra, DynamoDB), Redis, ETL Processes(Apache Spark, Talend, AWS Glue)
Software Design & Architecture: Microservices, RESTful APIs, GraphQL, Message Queues (Apache Kafka, RabbitMQ, AWS SQS)
Testing & Quality Assurance: Unit Testing (JUnit, pytest), Test-Driven Development (TDD), Selenium, Jest/Mocha
Agile & Collaboration Tools: Agile/Scrum Methodologies, JIRA, Trello/Asana, SDLC
Operating Systems & Development Environments: Linux/Unix, Windows, Virtualization (VMware, VirtualBox), NetBeans, IntelliJ IDE, Eclipse, Xcode, Visual Studio Code

EDUCATION

University Of Maryland Baltimore County Baltimore, MD
Master's in Management Information Systems, Minor in Information Studies *August 2021 – December 2022*
Gokaraju Rangaraju Institute of Engineering and Technology Hyderabad, IND
Bachelor's in Mechanical Engineering *August 2016 – September 2020*