

# Kolla Prakyath

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## SUMMARY

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Accomplished Software Engineer with **5+ years** of experience 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

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### 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 frontend 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, JAX-RS** and **RESTful APIs**, boosting scalability and cutting data retrieval time by **25%**.
- Enhanced **Single Sign-On(SSO)** security by implementing **PingAccess** and **PingFederate**, reducing unauthorized access incidents by **20%** and streamlining authentication for over **10,000** users.
- Streamlined real-time monitoring with **Splunk** and **Grafana** Dashboard, reducing incident response times by **30%** and enabling proactive failure recovery.
- Upgraded applications from **Java 11** to **Java 17**, leveraging design patterns 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, stored 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 and 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.
- 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 backend 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 and S3** for hosting while leveraging **CodePipeline** for CI/CD, **CodeBuild** for building and testing, **CodeDeploy** for seamless deployments to **EC2**, instances and **AWS Lambda** for serverless architecture.
- 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 Wipro Limited

June 2018 – July 2021  
Hyderabad, IND

- Demonstrated efficient data-driven applications using **Python, Flask, and MySQL**, optimizing query performance and reducing processing time by **20%**.
- Engineered dynamic (**SPAs**) using **Angular, HTML5, CSS3, Bootstrap and 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, and 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 realtime 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

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**J2EE Technologies:** Servlets, JSP, JavaBeans, JDBC

**Build /Other tools:** 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, JAX-RS

**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), Selenium, Jest/Mocha

**Agile & Collaboration Tools:** Agile/Scrum Methodologies, JIRA, Trello/Asana, SDLC

**Operating Systems & Development Environments:** Linux/Unix, Windows, Virtualization (VMware, VirtualBox), IntelliJ IDE, Eclipse, Visual Studio Code

## EDUCATION

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**University Of Maryland Baltimore County**

Baltimore, MD

*Master's in Management Information Systems, Minor in Information Studies*

*August 2021 – December 2022*