

SKILLS

Languages: Java (8, 11, 17), JavaScript, Python, C/C++, SQL (MySQL, Oracle, PostgreSQL).

Frameworks & Libraries: Spring Boot (3.3+), Hibernate, JEE, MVC, JUnit (5), Spock, Swagger (OpenAPI 3.1), Angular, React, WebClient, RestTemplate.

Tools & Platforms: RESTful APIs, Microservices Architecture, CockroachDB (22.1+), Apache Kafka, Gradle, Maven, Jenkins, Ansible, Liquibase (4.15+), Bitbucket, GitHub, Lucidchart, Docker, Kubernetes (Rancher), Helm.

Cloud & DevOps: AWS (EC2, S3, CloudWatch, Redshift), Google Cloud Platform (GCP), CI/CD, Agile Methodologies, Infrastructure as Code (IaC), SonarQube.

Database Management: Database Design, Query Optimization, Data Extraction, Data Processing.

CERTIFICATIONS

- AWS Certified Developer – Associate, Amazon Web Services
- Career Essentials in Generative AI, Microsoft and LinkedIn
- MIT Certificate: Data Science and Machine Learning
- JPMorgan Chase & Co Software Engineering Virtual Experience Program

WORK HISTORY

Software Engineer , Google Cloud Infrastructure Hyderabad, India	5/2022– 1/2023
<ul style="list-style-type: none">Architected TPU System Software: Improved and proposed the architecture for Tensor Processing Units (TPUs), resulting in a 50% improvement in system reliability and performance.Investigated System Efficiency: Optimized TPU system workflows and processes, leading to a 70% increase in operational efficiency and a significant reduction in system downtime.Generated Diagnostic Tools: Created automated diagnostic and performance evaluation tools that reduced issue resolution time by 40% and Analyzed server management capabilities.	
Full Stack Developer , Channel Pro Communications Hyderabad, India	2/2019 – 5/2022
<ul style="list-style-type: none">Web Development: Led the creation of interactive web applications using JavaScript (React, Angular), Node.js, and Python, focusing on user experience and functionality.API Integration and Development: Streamlined and Achieved RESTful APIs and integrated third-party services to enhance application capabilities and streamline data interactions, contributing to a 30% increase in system efficiency.Designed and Defined a robust data management system that streamlined data storage processes, reducing redundancy by 30%and improving overall application reliability for a user base of over 5,000 active users.Led a project in partnership with Google to deploy advanced machine learning algorithms, directly improving predictive analytics capabilities, with a resultant enhancement in decision-making speed that impacted over 500 daily users.Project Impact and Client Service: Delivered over 20 successful client projects, providing tailored solutions that met specific business needs and contributed to a 50% increase in client satisfaction and retention.	

PROJECTS

Enhancing Low-Resource Machine Translation through Large Language Models: Google Research
<ul style="list-style-type: none">Developed an innovative machine translation system using Large Language Models (LLMs), achieving a 30% improvement in BLEU scores for low-resource languages compared to traditional Neural Machine Translation (NMT) methods.Conducted a few-shot learning approach with LLMs that reduced the need for parallel corpora by 90%, while maintaining an average translation accuracy of 85% for high-resource language pairs.Designed and executed a comparative study of NMT and LLM-based translation methods, demonstrating a 40% reduction in training time and a 25% increase in translation fluency for morphologically rich languages, as evaluated by native speakers.In Progress: Need to enhanced the workflow of the process with high definition process using GPT 4.0 and GPT 3.5 turbo.
AI-Driven Quantum Cloud Analytics Platform: D-Wave Systems
<ul style="list-style-type: none">Advanced Data Processing: Accelerated a platform integrating quantum computing and AI to analyze datasets up to 10x faster than traditional methods, handling over 1 petabyte of data for real-time insights.Predictive Analytics: Implemented predictive models that redesigned forecasting accuracy by 35%, enhancing decision-making in finance and supply chain.Developed a comprehensive cloud migration strategy that transitioned 10 legacy applications to AWS, resulting in an annual savings of \$75,000 on infrastructure costs and Controlled scalability for all future deployments.Optimization and Performance: Utilized quantum algorithms to enhance optimization tasks, achieving up to a 60% reduction in computational time for complex scenarios, such as financial risk assessments and logistics planning.
RevOps Nexus Project : Loker Student Union, Inc
<ul style="list-style-type: none">Launched a reusable library using Java 17, Spring Boot 3.0, and CockroachDB to centralize revenue tracking, reducing manual intervention by 30% and improving financial visibility during critical financial reporting periods.Deployed the library on GitHub with CI/CD pipelines, automating updates and improving deployment efficiency by 25%, particularly during quarterly system audits.Architected a microservice using Spring Boot and Swagger to expose functionalities via RESTful APIs, streamlining AR processes for business and finance departments and improving activity tracking for the Games Room.In progress: Implementing Liquibase for database management and Spring Cloud for distributed settings, aiming to reduce downtime by 50% during system-wide updates.

EDUCATION

Masteter of Science : California State University Dominguez Hills	Jan 2024 - Dec 2024
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AWARDS AND ACHIEVEMENTS

Graduate Research Assistant at Loker Student Union	California State Dominguez Hills,CA
<ul style="list-style-type: none">Conducted Research and Data Analysis: Performed detailed data analysis and research to support student engagement initiatives and policy development, contributing to enhanced student services.	
Esports Club Main Player	California State Dominguez Hills, CA
<ul style="list-style-type: none">Captured and streamed 30+ matches as the primary player, enhancing team visibility and engagement; generated a loyal online following of over 1,500 viewers, contributing to increased sponsorship opportunities.	
MLH Hackathon : Ranked 3rd out of 15 from Anurag University.	