

LAKHAN PALORE

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SUMMARY

- **Experienced Software Engineer** with over 5 years of expertise in developing scalable, high-performance applications and enterprise solutions, leveraging **Java**, **Python**, and **C++** to enhance functionality and optimize data processing across diverse platforms.
- Proficient in **microservices architecture** and **RESTful API development** using **Java** and **Spring Boot**, with strong skills in backend frameworks like **Node.js**, **ASP.NET**, and **Flask** for seamless data integration and improved system efficiency.
- Skilled in implementing and managing **CI/CD pipelines** using **Jenkins**, **GitLab CI/CD**, and **Docker**, reducing deployment cycles by up to 60% and ensuring consistent code quality in vital production environments.
- Hands-on experience with **cloud platforms** including **AWS** (EC2, S3, Lambda, RDS) and **Microsoft Azure**, with a reliable track record of successful **cloud migrations** and database optimization.
- Strong background in **Agile methodologies** and cross-functional collaboration, utilizing tools like **JIRA** and **Confluence** to drive efficient project delivery, and employing DevOps best practices to streamline operations and improve software reliability.

EDUCATION

University of Cincinnati, Cincinnati, OH
Masters of Information Technology

Aug 2023 - Dec 2024

Jawaharlal Nehru Technological University
Bachelor of Technology in Computer Science & Engineering

Aug 2017 - Jul 2021

TECHNICAL SKILLS

Programming Languages	: Java, Python, C++, C#, JavaScript, Ruby
Frontend Technologies	: React, Angular, TypeScript, HTML, CSS, Bootstrap
Backend & Frameworks	: Spring Boot, Spring MVC, Node.js, ASP.NET, Flask
Cloud Platforms	: AWS (EC2, S3, RDS, Lambda, IAM), Microsoft Azure (Azure Functions, DevOps)
Database Management	: MySQL, PostgreSQL, SQL Server, MongoDB, DB2
DevOps & CI/CD Tools	: Jenkins, GitLab CI/CD, Docker, Ansible, Git,
GitHub Version Control	: Git, GitHub, Bitbucket
Testing & Load Testing Tools	: JMeter, Selenium, JUnit, Postman
Scripting & Operating Systems	: Bash, Shell Scripting, PowerShell, Linux, Windows
Project Management & Collaboration	: Jira, Confluence, Agile, Scrum
Machine Learning & Data Analysis	: TensorFlow, Pandas, NumPy, Scikit-Learn, OpenCV, Matplotlib
Containerization & Orchestration	: Docker, Kubernetes

WORK EXPERIENCE

Software Engineer (Intern)
EV Buddy Inc

Aug 2024 - Current
Remote, OH

- **Led the development** of a full-stack web application, achieving a **30% improvement in user engagement** through core functionalities such as **user authentication**, **product CRUD operations**, and a **responsive user interface**.
- Implemented **Redux** for state management, improving application performance and scalability by **25%**, resulting in faster page loads and smoother user experiences.
- Designed and developed scalable backend services using **Node.js** and **Express.js**, with **MongoDB**, increasing data retrieval efficiency by **20%**.
- Built and integrated **RESTful APIs**, enabling seamless communication between the frontend and backend, improving system integration speed by **35%**.
- Leveraged **AWS services** like S3 for file storage and EC2 for deployment, ensuring **99.9% uptime** and enhancing overall system reliability.
- Automated build and deployment processes using **CI/CD pipelines** with tools like **Jenkins** and **GitHub Actions**, reducing deployment errors by **40%** and speeding up delivery by **50%**.
- Collaborated with cross-functional teams, enhancing project delivery efficiency by **30%** within an **Agile development environment**.

Research Assistant

Dec 2023 - Aug 2024

University of Cincinnati

OH

- Analyzed and comprehended the **Java codebase of the I2P project**, an anonymous network layer designed for **copyright-resistant** and **secure communication**.
- Gained a deep understanding of the code's structure, including **classes**, **methods**, and their interactions, to facilitate **efficient debugging and enhancements**.
- Researched and addressed technical challenges and design considerations involved in building secure and anonymous communication systems.
- Explored advancements in anonymity and secure communication technologies to understand their implications for **privacy** and **online freedom**.
- Collaborated under the guidance of **Dr. Jacques**, contributing to the **I2P Research Project** through regular progress updates, discussions, and iterative improvements.
- Delivered insights to improve the system architecture and optimize the performance of secure communication protocols.

Systems Engineer

Aug 2021 - Jul 2023

Tata Consultancy Services

India

- Designed and implemented **RESTful APIs** using **Spring Boot** and **Hibernate**, achieving seamless backend integration and reducing response times by **15%**.
- Developed a **microservices-based architecture**, enabling **modular scalability** for a **web application**.
- Optimized application performance by **20% through efficient database queries, indexing, and caching techniques** using **Redis** and **SQL** optimizations.
- Leveraged **AWS services** such as **S3**, **RDS**, and **EC2** to deploy and manage scalable, high-availability microservices.
- Automated testing and deployment using **Jenkins** to create **CI/CD pipelines**, reducing deployment times by **40%** and minimizing production issues. And Collaborated on code version control and branching strategies using **Git**.
- Ingested large data sets into the **Enterprise Data Lake** from diverse sources (databases/files), transforming them using **PySpark** and **SQL**, resulting in **30% faster ETL processes**.
- Built **robust unit and integration tests** with **JUnit** and **Mockito**, improving test coverage by **35%** for critical applications.

Junior FSD

Feb 2020 - Jul 2021

Classic Engineering Solutions

India

- Developed and automated testing scripts using **Python**, ensuring **98% accuracy** in testing and **reducing manual effort by 30%**.
- Designed and implemented **RESTful API interfaces** integrated with **MySQL** and deployed on **AWS ECS**, improving backend scalability and reliability.
- Processed and ingested **large datasets** into distributed systems using **PySpark** and **SQL**, optimizing data workflows by **25%**.

Software Engineer (Intern)

Aug 2019 - Jan 2020

Classic Engineering Solutions

India

- Collaborated with front-end developers and stakeholders to define and align on **API specifications** and data integration requirements.
- Built and maintained **Python test scripts** to validate data replication processes, enhancing API reliability by **20%**.
- Deployed **containerized microservices** using **Docker**, **Terraform**, and managed CI/CD pipelines with **GitHub Actions**, achieving faster and automated deployments.

Student Intern

Jan 2019 - Jul 2019

Verzeo

India

- Improved **machine learning** model accuracy by **15%** for **face recognition systems** using **decision trees**, **Naive Bayes**, and **kNN algorithms in Python**.
- Reduced processing time for text summarization by **20%** using Python libraries like **scikit-learn**, **NumPy**, and **pandas**, **optimizing data analysis workflows**.

CERTIFICATIONS

- Google Cloud Certified Associate Cloud Engineer (ACE)
- Microsoft certified: Azure Administrator Associate (AZ-104)