**Vishnu Vandana Pyatla**

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# PROFESSIONAL SUMMARY

* An experienced IT developer in all phases of the **Software Development Life Cycle(SDLC)** including **web service development** and **web application development.**
* Worked with **Jira** and **Agile Methodologies** and experienced in the Bankingdomain.
* Worked on developing web applications using **Java 17/11/8, Python, OOPS, Multithreading, Spring Boot, React and Angular** and focused on creating features that allowed users to log in securely and manage their data smoothly.
* Extensive experience in **Amazon Web Services** **(AWS)** like **EC2, S3, Lambda** and leveraging Cloud Technologies for scalable and efficient application development and deployment.
* Experienced in building enterprise integration workflows using **Mulesoft** and **Java DSL**, with a focus on robust routing, transformation, and API orchestration across distributed systems.
* Experienced in integrating **Generative AI** solutions using large language models (**LLMs**) to automate tasks such as code generation, documentation, and user support, enhancing productivity and user engagement in enterprise applications.
* Gained experience with **MySQL** and **MongoDB** database management and handled tasks like storing and retrieving data efficiently.
* Development experience in various OS like **Windows, Linux, and UNIX** and excellent troubleshooting skills.
* Excellent **problem-solving skills, attention to detail** and a **collaborative mindset.**

# TECHNICAL SKILLS

* **Languages:** Java 17/11/8, Python, JavaScript
* **J2EE Technologies:** Servlets, JSTL, JDBC, JMS, Multi-Threading
* **Frameworks:** Spring Boot, Spring MVC, Spring Security, Spring Cloud, Spring AOP, Spring IOC, Spring Data, Hibernate
* **Web Technologies:** HTML5, CSS3, ReactJS, NodeJS, JavaScript
* **Amazon Web Services (AWS):** EC2, S3, Lambda, SQS, SNS, AWS IAM, CloudWatch
* **Web Services:** Restful, SOAP, OAuth
* **Messaging Queues:** RabbitMQ, ActiveMQ, Apache Kafka, IBM MQ
* **Cloud Technologies:** AWS**,** GCP
* **Dev-ops tools:** Terraform, Jenkins, Shell Scripting
* **Build Tools/CI-CD Tools:** Ant, Maven. Jenkins
* **Version Control:** GIT, GitHub, GitLab
* **Containerization Tools:** Docker, Kubernetes
* **IDE Tools:** IntelliJ, Jira, Confluence, Postman
* **Databases:** MySQL, PostgreSQL, MongoDB
* **Operating Systems:** Windows, Linux, Unix
* **Methodologies:** Agile, Scrum, TDD
* **Project Management/Logging:** Jira, Log4j, Splunk
* **Testing tools:** JUnit, Selenium, Cucumber, PowerMock

# PROFESSIONAL EXPERIENCE

**Apple, Austin, TX March 2025 to Present**

**Software Engineer**

* Developed modular backend services using **Java 17**, **Spring Boot**, and **REST APIs**, supporting Apple’s enterprise platforms.
* Built and maintained **ReactJS and TypeScript** front-end components for internal tools, ensuring responsive and accessible UIs.
* Implemented **Apache Camel** with **ActiveMQ** for message transformation, routing, and exception handling in integrating cross-system workflows.
* Built asynchronous workflows using **Amazon SQS**, **SNS**, and **Lambda** to decouple services and enhance scalability.
* Integrated **AI** chatbots using **OpenAI APIs** to streamline customer interactions.
* Integrated **IBM MQ** for reliable asynchronous messaging between distributed microservices in banking and enterprise platforms.
* Designed **Kafka**-based event-driven microservices to replace legacy synchronous communication, resulting in **60% latency reduction**.
* Created **GraphQL APIs** to streamline frontend data access and eliminate over-fetching in high-traffic components.
* Tuned WebSphere application server performance by optimizing **heap sizes, thread pools**, and **JVM parameters** for large-scale enterprise apps.
* Deployed containerized microservices with **Docker** and **Kubernetes**, and automated builds using **GitLab CI**.
* Configured monitoring using **AWS CloudWatch** and **Splunk**, enabling fast issue diagnosis and log-based alerting.
* Implemented **data comparison and correction mechanisms** to maintain accuracy and consistency across multiple databases.
* Developed backend modules using **PostgreSQL**, **MongoDB** to support efficient, scalable data operations.
* Wrote unit and integration tests using **JUnit**, **Cucumber**, and supported frontend E2E testing with **Jest** and **Cypress**.

**Technologies Used:** Java 17, Spring Boot, REST APIs, Apache Kafka, Apache Camel, ReactJS, TypeScript, GraphQL, Docker, Kubernetes, GitLab CI, AWS (CloudWatch, Lambda, S3, EC2), Splunk, IBM Websphere, JUnit, Cucumber, Jest, Cypress

**Wells Fargo, Charlotte, NC, United States Jan 2024 to Feb 2025**

**Software Engineer**

* Developed responsive frontend components using **ReactJS**, **Bootstrap**, and **JavaScript**, building reusable modules for transaction dashboards and customer-facing UIs.
* Built and deployed scalable microservices using **Java**, **Spring Boot**, and **Hibernate ORM**, delivering secure and performant backend APIs for financial workflows.
* Developed and deployed **enterprise-grade EJB modules** on **IBM WebSphere Application Server**, enabling secure, transactional business logic execution.
* Integrated React applications with backend REST APIs, enabling **real-time transaction data flow** across multiple service layers.
* Designed and provisioned cloud-native workloads using **AWS EC2**, **Lambda**, **S3**, and **RDS**, achieving **high availability and fault tolerance** for core banking operations.
* Containerized services using **Docker** and deployed to Kubernetes clusters, with CI/CD automation using **Jenkins**, **GitLab CI**, and **Terraform**.
* Developed asynchronous updates with **Kafka** and low-latency communication using **Redis Pub/Sub**.
* Designed message producers and consumers using **JMS API** with **IBM MQ**, ensuring secure, transactional, and fault-tolerant communication.
* Built backend services that consume **AI model outputs** for live decision-making.
* Connected to external **AI services** through **REST APIs** for language processing tasks.
* Automated server operations and deployments using **Shell scripting** and **Ansible**, reducing manual effort by 60% and improving release reliability.
* Configured and monitored **RabbitMQ clusters** for high availability and fault-tolerant message delivery.
* Designed and managed data models using **MySQL** and **DynamoDB** to support both relational and **NoSQL** workloads efficiently.
* Ensured **data accuracy and consistency** by implementing robust comparison and correction mechanisms in live production systems.
* Developed **comprehensive data synchronization solutions** across systems, ensuring consistent and up-to-date records.
* Wrote unit and integration tests using **JUnit**, ensuring compliance with business rules and improving regression test coverage.

**Technologies Used:** Java, Spring Boot, Hibernate ORM, REST APIs, ReactJS, JavaScript, Bootstrap, Kafka, EJB, Redis, Docker, Kubernetes, Jenkins, GitLab CI, IBM MQ, Terraform, AWS (EC2, S3, Lambda, RDS), JUnit, Shell Scripting

**Western Illinois University, Macomb, IL, United States Aug 2022 – Dec 2023**

**Graduate Assistant**

* Collaborated on a university-led research project to build a containerized **Spring Boot** application for reimbursement logging (POC).
* Assisted in migrating **SQL Server** data from a legacy system into a Java-based pricing engine used in a simulated healthcare reimbursement scenario.
* Debugged **React Native** mobile prototypes using **Flipper** and **DevTools**, supporting frontend testing.
* Supported implementation of **Java** microservices and **REST APIs** as part of the backend module.
* Followed **TDD** and participated in peer code reviews within a university development environment.

**Technologies Used:** Java, Spring Boot, SQL Server, REST APIs, React Native, Flipper, DevTools, TDD, Git, IntelliJ IDEA

**Infosys, Hyderabad, India May 2020 – July 2022**

**Java Developer**

* Built backend modules using **Core Java**, **Spring Boot**, and **Hibernate** as part of enterprise application development.
* Built interactive UIs using **React.js**, **HTML**, **CSS**, focusing on component-based architecture.
* Developed **REST APIs** to connect backend services with internal web applications.
* Participated in deploying services to **AWS ECS** and implemented basic functions using **AWS Lambda** and **API Gateway**.
* Worked on **Terraform** scripts and configuration files to support cloud infrastructure setup in **AWS** and **Azure**.
* Handled database interactions using **Spring JDBC**, **Spring Data**, and optimized simple queries with **MongoDB** and **Redis**.
* Contributed test cases using **JUnit** for APIs and **Jasmine** for UI flows during sprint-level QA cycles.
* Followed internal coding guidelines and team-defined patterns to ensure consistency across modules.
* Created and updated **MySQL, Oracle**  queries for data retrieval and validation tasks during backend feature development.
* Applied correction mechanisms post-comparison to reconcile discrepancies across **SQL** and **NoSQL** storage layers.
* Collaborated using **SVN**, **Eclipse**, and **JIRA** in Agile teams with daily stand-ups and sprint.

**Technologies Used:** Core Java, Spring Boot, Hibernate, REST APIs, Spring JDBC, Spring Data, MySQL, MongoDB, Redis, AWS (ECS, Lambda, API Gateway), Terraform, Ansible, JUnit, Jasmine, SVN, Eclipse, JIRA.

**CERTIFICATIONS**

* [AWS Certified Solutions Architect](https://www.credly.com/badges/e9b47f3c-6a79-49ee-b224-1c33386f71ad) [AWS Certification]
* [Gen AI Fundamentals](https://credentials.databricks.com/c5e284e3-fa5b-44ba-ac63-bdde1061c33d#acc.lh4yFHGL) [Databricks Certification]
* [Career Essentials in Github Professional Certificate](https://www.linkedin.com/learning/certificates/7427730b5501669608a3dd2005ad6c20ebb163562ef6fef289beee53b461197b?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_view_base_certifications_details%3BNmpv3HTbQMqfWSE1PBQEUg%3D%3D) [Github Certification]
* [Credly Certifications](https://www.credly.com/users/vishnu-vandana-pyatla.faf8adee/edit#credly)

**EDUCATION**

## Western Illinois University, Macomb, Illinois, United States Aug 2022 – May 2024

* Master’s in **Computer and Information Sciences.**
* CGPA: 3.66/4.0
* **Coursework**: Artificial Intelligence Methods, Data Structures & Algorithms, Core Java, Database Design and Administration, Advanced Artificial Intelligence, Computer Architecture, Software Engineering, Computer Stimulation, Computer Networks, Operating Systems, Advanced Operating Systems, Topics of Operating Systems, Computer Graphics.

**Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India July 2018 – May 2022**

* Bachelors in **Electronics and Communications Engineering (ECE)**.
* CGPA: 8.8/10
* **Coursework**: Digital Communication, Data Structures, Computer Networks, Java, DBMS, Python, Operating Systems, Digital Signal Processing, Network Security, Machine Learning, Cloud Technologies.

**ACADEMIC PROJECTS**

**Airline Management:**

* Developed a full-stack application using **Spring Boot and Angular** to manage **airline** operations, including **flight scheduling, booking management, and user authentication.**
* Implemented robust exception handling, data persistence with **Spring Data JPA,** and a responsive user interface for seamless user interaction.

**Automated Attendance and Monitoring System using Machine Learning:**

* Designed and implemented a **face recognition-based attendance system** using computer vision to automate student tracking and reduce manual effort in educational institutions.
* Integrated **Excel automation, cloud storage**, and **Telegram API** to update real-time attendance records and notify absentees, ensuring secure and accessible data management.