

Bindu Kalyani Guntupalli

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OBJECTIVE

Recent graduate in Information Technology with prior software development experience, seeking an entry-level Software Engineer role to contribute to backend development using Java, Spring Boot, SQL, and Python, with a strong willingness to learn new technologies.

EDUCATION

Northern Illinois University, IL, US - CGPA: 3.9/4

Jan 2024 - Dec 2025

Master of Science, Information Systems

Coursework: Python, SQL, R Programming Language, Applied Business Analytics (SAS), Business Data Visualization, SAP ERP, System Analysis & Design, Digital Transformation Strategy, Network and Cyber Security, Project Management

Acharya Nagarjuna University, AP, India - CGPA: 7.01/10

Mar 2016 - Sep 2020

Bachelor of Engineering, Electrical and Electronics

Relevant Coursework : Power Systems, Differential Equations and Statistics , DC Machines, Problem Solving with C , Data Structures Using C++

TECHNICAL SKILLS

Languages and Frameworks: C, C++, Java, Python, SQL, R, JavaScript, Spring Boot, REST APIs

Backend & Concurrency: Multithreaded Programming, Asynchronous Processing, Synchronization Methods (thread safety, locks, resource management)

Databases: MySQL, Oracle, PostgreSQL, MongoDB, DynamoDB, Microsoft Access

Distributed Systems & Data Processing: Batch Processing, Data Pipelines, Data Integration

Cloud & DevOps: AWS (S3, EC2, Lambda), Microsoft Azure, Git, CI/CD Pipelines, Kubernetes, Swagger, Postman

Software Engineering Practices: Object-Oriented Design, Data Structures & Algorithms, System Design, Technical Specifications, Design Documentation, Agile / SDLC

WORK EXPERIENCE

Software Engineer | Tata Consultancy Services | Gachibowli-Hyderabad, India.

April 2021 - Jan 2024

- Contributed across the software development life cycle (SDLC), including requirement discussions, backend development, testing, deployment, and production support
- Developed and maintained RESTful APIs using Java and Spring Boot to support backend application functionality and ensure reliable request handling and service integration
- Implemented backend interface using Spring Boot framework to integrate APIs with data sources such as Elasticsearch, Oracle, and MySQL across multiple environments enabling consistent and reliable data access
- Participated in Agile sprint activities, including daily stand-ups and task updates, to track progress and align development work
- Performed static code analysis using SonarQube and participated in peer code reviews to improve code quality, readability, and maintainability
- Used Git for version control and GitLab for repository management and collaborative development
- Built and Executed CI/CD pipelines using Jenkins to automate application deployments to cloud environments and support reliable application availability
- Developed Java-based automated tests using testing frameworks to validate backend services and ensure reliable continuous testing
- Supported release rollouts and environment deployments by coordinating deployment across multiple environments to validate application readiness and post-deployment stability
- Tested and validated API endpoints using Swagger and monitored application behavior using Grafana to ensure correct functionality and system stability
- Identified and resolved applications bugs and production issues through log analysis, debugging and validation of fixes prior to deployment to ensure application stability
- Collaborated with QA, support, and DevOps teams to coordinate deployments and release activities, ensuring ongoing application stability

LEADERSHIP EXPERIENCE

Graduate Teaching Assistant | Northern Illinois University | Dekalb-Illinois, US.

August 2024 - May 2025

- Delivered instructional support in SQL, database design, and query optimization to 40+ graduate and undergraduate students, reinforcing practical application through structured tutorials and lab sessions
- Provided academic assistance through individual and group mentoring, contributing to a 25% average improvement in student performance on assignments and examinations
- Graded assignments, projects, and exams for 100+ submissions per semester, ensuring accurate evaluation and delivering constructive feedback that promoted continuous skill development

PROJECTS

Early Detection of Diabetes-Predictive Modeling

May 2025

- Built an end-to-end data processing and modeling pipeline, including data ingestion, preprocessing, and model execution using Python
- Implemented modular code for feature extraction, training, and evaluation, emphasizing reproducibility and maintainability
- Designed evaluation workflows and logging to validate model correctness and reliability across datasets

Employee Burnout Rate Estimation

December 2024

- Developed a structured data analysis pipeline combining statistical techniques and machine learning models to process large datasets
- Implemented regression and classification workflows with reusable components for feature selection, training, and evaluation
- Focused on translating analytical results into scalable, data-driven solutions through clean code and documentation

HONORS & AWARDS

- Special Initiative Award, Tata Consultancy Services (TCS)]

- Phi Beta Gamma Honor Society, inducted for academic excellence

- Merit-Based Scholarship, awarded based on competitive performance in SAP TS410 Workshop Examination