

Bhavani Sai Narayana Pottipothula

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Summary: Full Stack Developer and AWS Certified Solutions Architect pursuing a Master's in Information Technology at ASU. Experienced in Java, Spring Boot, React, and AWS. Former SDE at BNP Paribas, where I built microservices, optimized SQL, and integrated secure cloud solutions. Passionate about building scalable, real-world applications.

Experience

Associate Software Engineer

January 2023 - December 2023

BNP Paribas

Chennai, India

- Modernized a legacy banking platform by developing and deploying 10+ RESTful microservices using Spring Boot and Hibernate, improving system modularity and reducing onboarding time for new modules by 30%.
- Improved backend performance by optimizing SQL queries and introducing indexing, which reduced API response time by 35% for high-traffic endpoints.
- Integrated AWS services such as S3, EC2, and IAM to securely manage document storage, enabling scalable and auditable data workflows for internal banking operations.
- Participated in Agile ceremonies, collaborated with cross-functional teams, and contributed to 3 major feature rollouts impacting over 100K users globally.

Software Engineer Intern

July 2022 - December 2022

HighRadius

Hyderabad, India

- Designed and built dynamic UI components using React.js, improving usability of the client-facing dashboard and reducing data retrieval time by 25%.
- Developed and secured backend APIs using Spring Boot and MySQL, enabling reliable storage and retrieval of project data for 5K+ user records.

Research Intern - Intelligent Systems Group

December 2021 - June 2022

Samsung R&D Institute

Bangalore, India

- Contributed to the development of motion planning algorithms for autonomous systems using Python and ROS, achieving a 15% increase in pathfinding efficiency during simulation tests.
- Simulated multi-agent robotic behavior in constrained environments, supporting real-time obstacle detection and avoidance mechanisms.
- Created technical documentation and internal research reports using LaTeX, improving reproducibility and assisting in onboarding of 4 new researchers.
- Version-controlled research experiments using Git, ensuring traceability and consistency across collaborative modules.

Projects

MentorTrack – Student Project and Portfolio Management System

- Developed a role-based full-stack web application enabling students to showcase portfolios and institutions to monitor progress and provide feedback.
- Implemented backend APIs using Spring Boot, Spring Security, and Hibernate ORM with MySQL database integration.
- Created responsive front-end interfaces with JSP and integrated React components to enhance user experience and enable real-time updates.
- Utilized Eclipse IDE, MySQL Workbench, Visual Studio Code, Bootstrap for efficient development & deployment.

Cloud-Based File Sharing and Storage System

- Developed a scalable file-sharing system using AWS S3 for storage and EC2 for backend hosting, enabling secure file management and real-time sharing.
- Implemented AWS IAM for access control, ensuring secure file sharing with encryption and automated backups.
- Created a responsive frontend with React.js, enhancing the user experience by enabling quick file uploads and retrieval.

Education

Arizona State University

Tempe, AZ

Master of Science in Information Technology

January 2024 - December 2025(Expected)

Skills

Technical Skills

Programming Languages: Java, Python, C++, JavaScript

Web & Frameworks: Spring Boot, React, HTML, CSS, RESTful APIs, JPA/Hibernate

Database/Cloud: MySQL, PostgreSQL, AWS(S3, IAM, EC2), Azure Fundamentals

Tools & Platforms: Git, GitHub, VS Code, Eclipse, Linux, Docker, Postman, Agile, Jira