

Prithish Samanta

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Objective

Motivated software developer with hands-on experience building scalable full-stack applications, cloud-native solutions, and secure systems. Specializes in Java, Spring, React, and cloud technologies. Brings a passion for leveraging technology to solve real-world problems and thrives in collaborative environments with a commitment to continuous learning and delivering impactful software.

Education

M.S. Computer Science

North Carolina State University - 3.88 GPA

Aug 2024 - May 2026

Raleigh, United States

B.Tech, Computer Science and Engineering

Vellore Institute of Technology - 8.6 CGPA

Jul 2019 - May 2023

Vellore, India

Technical Skills

Languages: Java, Python, Ruby, C, C++

Databases and Related Tools: SQL, MongoDB, JDBC, Hibernate

Tools and Frameworks: Spring Boot, React, Jenkins, Git, Agile, HTML, Unix, OpenAI Integration

Cloud and Security Tools: AWS, Kubernetes, SonarQube, ZAP, Burp Suite, Snyk

Work Experience

Software Developer

Jul 2023 - Jul 2024

Amdocs

Pune, India

- **Designed and implemented** an automated database purging tool using **SQL**, and Shell scripting to streamline environment refresh cycles by safely cleaning redundant test data; integrated into Jenkins pipelines, which reduced maintenance time by over 80%.
- **Engineered backend** features for Vodafone UK's Operational Support Services business requirements using **Java**, **Spring** and **SQL**, which involved optimizing network workflows, and ensuring seamless integration and activation across production environments.
- **Addressed data parity and improved system reliability** by investigating and resolving critical data inconsistencies between production and master environments through targeted SQL analysis and corrective updates.
- **Refactored** pom.xml files and application dependencies to **support CI/CD upgrades** of the OSS application; aligned configurations with new build requirements, validated through Jenkins, and delivered hotfixes for integration issues.

Projects

Smart Compliance Scheduler

- **Full-Stack & OpenAI Integration:** Developed a modern web application with React, Spring Boot, and MySQL, featuring an integrated OpenAI-powered chatbot that enables users to create tasks or get assistance via natural language.
- **UI/UX & Visualization:** Implemented intuitive calendar and table views for real-time visibility of task deadlines, priorities, statuses, and assigned team members.
- **Automation & Collaboration:** Enabled secure file attachments and automated email reminders, streamlining team communication and ensuring timely compliance.
- **Backend/API Design:** Developed a scalable backend with robust REST APIs for seamless task creation, editing, and notifications.

AI-Powered Personal Knowledge Vault

- **Note Management & Organization:** Developed a web platform enabling users to create, organize, and securely store personal notes for easy access across devices.
- **AI-Powered Summarization:** Integrated OpenAI API to automatically generate concise summaries for each note, helping users quickly review important information.
- **Cloud Storage & Security:** Utilized AWS S3 and MongoDB Atlas to ensure all notes and files are safely stored, always available, and protected by secure authentication.
- **Cloud Deployment & Scalability:** Containerized and deployed the application with Docker and Kubernetes on AWS, ensuring high reliability, easy updates, and scalable performance.

Security Testing on OpenEMR 7.0.3

- **Penetration Testing & Vulnerability Assessment:** Led black-box and exploratory assessments on OpenEMR 7.0.3, systematically uncovering security issues using OWASP ASVS and CWE standards.
- **Security Tools & True Positive Reporting:** Identified and reported actionable flaws with Burp Suite, ZAP, and SonarQube, ensuring findings were relevant to real-world risks.
- **Threat Modeling:** Performed comprehensive threat modeling to proactively address architectural and design-level security risks.
- **Abuse Case Development:** Created abuse and misuse test cases to simulate real attack scenarios and evaluate application robustness.

Certifications

AWS Cloud Practitioner Essentials - Pursuing

- Gained foundational knowledge of cloud computing principles along with core AWS services, architecture, and best practices.