BVRITH ALUNITE: A CLOUD-DRIVEN ALUMNI–STUDENT PLATFORM

ABSTRACT

Alumni and students at BVRITH share a strong bond, but their interactions are often dispersed across multiple unstructured platforms, limiting the full potential of mentorship and collaboration. *BVRITH Alunite* proposes a centralized, cloud-native platform that orchestrates secure, scalable, and data-driven interactions between alumni and current students. Built with a microservices architecture on managed cloud services, the system provides authenticated user onboarding, role-based access, real-time messaging, event management, and structured mentorship matching powered by profile analytics. A serverless backend and containerized services enable elastic scaling for peak loads during placement seasons and major events, while object storage and CDN accelerate delivery of multimedia resources (talks, portfolios, webinars). An event-driven pipeline aggregates engagement signals to generate insights for faculty and placement cells, supporting targeted programs and outcome tracking. End-to-end security—SSO integration, encrypted data at rest and in transit, and fine-grained IAM—preserves user privacy and institutional compliance. By unifying discovery, communication, and knowledge sharing, BVRITH Alunite transforms ad-hoc interactions into measurable mentorship outcomes, enhances student career readiness, and sustains a vibrant alumni community, all while ensuring high availability, cost efficiency, and maintainability through cloud best practices.

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