ASHTON DSOUZA

Full-Stack Web Developer

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GitHub | **Portfolio** | **Linkedin** | **Blog**

EDUCATION

Thadomal Shahani engineering college

Information Technology B.E.   2023 - 2027

SKILLS

Programming Languages:	Java, Javascript, Python, Typescript, Solidity
Libraries/Frameworks:	Spring Boot, React
Tools / Platforms:	Git, PostMan, Docker, Swagger, AWS
Databases:	SQL, MongoDB, Postgresql

PROJECTS / OPEN-SOURCE

Email Assistant | Link   *Spring Boot React.js Gemini AI JWT REST APIs Spring Security*

Built a full-stack AI-powered productivity tool to streamline email management and composition workflows. Integrated Google Gemini AI to generate context-aware email drafts, smart replies, and real-time summaries based on thread content and user intent. Developed a secure and modular backend using Spring Boot, implementing authentication, authorization, and request validation with Spring Security and JWT. Designed a responsive and intuitive React.js frontend with features like dynamic inbox rendering, AI-enhanced compose flow, and real-time tone adjustment to personalize responses. Ensured smooth user experience with asynchronous API calls and loading state management, delivering a polished product prototype for production use.

Video Call web-application | Link   *React Spring Boot REST APIs JWT Auth WebRTC*

Developed and deployed robust 1-on-1 and group video calling features using the ZegoCloud SDK (third-party RTC platform), enabling real-time audio/video communication with minimal latency. Built a dynamic frontend in React for seamless user experience and integrated secure, scalable backend services using Spring Boot. Engineered RESTful APIs to handle room creation, session management, and participant coordination. Implemented JWT-based authentication, real-time join/leave updates, and error handling for unstable networks. Designed for scalability and cross-device compatibility, supporting concurrent multi-user sessions. Delivered a production-ready feature that mirrors industry-standard video conferencing platforms.