SONAL SHAILJA

Bengaluru, India

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Summary

Experienced Software Developer with over 1.5 years in creating robust microservices, REST APIs, and backend solutions using Java, SQL, and NoSQL databases. Proficient in developing desktop and mobile applications in Java and C#. Adept at employing industry best practices and ensuring seamless integration through meticulous coding and problem-solving skills.

Technical Skills

Major: Java, PostgreSQL, SQLite, MySQL, NoSQL(MongoDB), C#, Vert.x, JDBC, REST, Microservices, Concurrent Programming, Object Oriented Design, Design Patterns, Data Structures and Algorithms.
Additional: Spring, Spring Boot, Caching, ORM frameworks (Hibernate, JPA), Redis, Kafka, Docker, Kubernetes, DevOps.

Experience

Ziroh Labs   **March 2022 – Present**
Member Technical Staff

- License Server -

    Transformed the License Server microservice, initially relying on Keygen services for licensing. Designed and developed REST clients to interface with Keygen APIs, managing the intricate business logic and database layer to provide licenses for our products. Engineered a cost-effective in-house licensing solution, leveraging the Vert.x framework and PostgreSQL database. This strategic shift significantly reduced operational expenses and enhanced flexibility in license management. Implemented a comprehensive email notification system, including welcome emails upon new license creation (sign-up) and alert emails for every new device sign-in. These emails served to inform users about their license activity and enhance user security awareness. Integrated multiple payment gateways (Braintree, PayPal, Stripe) to facilitate seamless and secure transactions for license creation and upgrades, ensuring a frictionless user experience.

- Zunu Mail -

    Developed Zunu Mail, a secure cross-platform email application for Gmail and Outlook accounts. Implemented end-to-end encryption for all emails, ensuring maximum user privacy and security. Enhanced application functionality by creating an offline-first approach, utilizing a robust database caching layer. Engineered a seamless syncing mechanism, updating emails in real-time, ensuring accurate and up-to-date data. Optimized email retrieval from Gmail and Outlook servers, significantly reducing latency and improving user experience.

- Website Server -

    Engineered the Website Server microservice, allowing users to download applications from the company's official website for various platforms. Implemented uploading and downloading of installers to Google Cloud Storage (GCS), ensuring efficient distribution of applications. Utilized Vert.x framework and MongoDB for seamless handling of installer files and metadata, optimizing performance and reliability.

- Zunu Launcher -

    Integrated diverse Zunu ecosystem applications, including Electron.js desktop apps and Java applications, into a unified launcher interface. Developed seamless communication channels via Web Sockets, enabling real-time interaction between Java and Electron.js apps. Automated application builds and deployment using the Java jpackage tool, streamlining the development process and ensuring consistent delivery.

- Zunu Drive -

    Collaborated with the Indian Air Force development team to integrate their file-sharing mechanism with the app. Implemented LDAP protocol, ECDH algorithm, and NFS, ensuring secure and seamless file sharing.

Education

Trident Academy of Technology, Bhubaneswar   **2018 – 2022**
B. Tech (Information Technology)   *CGPA: 9.0*