Md. Ahad Ali

Dhaka, Bangladesh · linkonahad10@gmail.com · +8801551058902 · in/ahad2001 · github.com/ahadAli102

SUMMARY

Experienced Software Engineer with around 2 years of experience, specializing in Java, Kotlin, Spring, MySQL and Backend Development. Developed middleware for TELECOM API integration, optimized legacy app TPS and improved efficiency through performance monitoring and UI tools.

EXPERIENCE

Software Engineer

hSenid Mobile Solutions (Pvt) Ltd   **April 2024 – Present, Dhaka, Bangladesh**

- Developed a middleware application to integrate TELECOM APIs with applications, enabling seamless data exchange and communication.
- Configured a monitoring tool to track and analyze application performance in real-time, enhancing system reliability.
- Enhanced the TPS of legacy applications by 45% through performance optimizations, resulting in faster request processing.
- Created a web UI for changing database configurations, reducing manual error risks and improving efficiency by 60%.
- Mentored interns during the development process and performed code reviews.

Associate Software Engineer

hSenid Mobile Solutions (Pvt) Ltd   **January 2023 – March 2024, Dhaka, Bangladesh**

- Designed and developed a USSD application for M1 (Singapore), enabling users to seamlessly activate offers and transfer balances, which improved user engagement by 20%.
- Developed a mobile banking solution for RawBank (Congo), supporting banking operations on all mobile phones, resulting in a 100% increase in customer engagement via USSD.
- Upgraded application dependencies, reducing vulnerabilities and enhancing platform security and stability.

SKILLS

Backend Technologies: Java, Kotlin, Spring Core, Spring Boot, Spring MVC, Spring JDBC, JAX-WS, Netty, Hibernate
Frontend Technologies: HTML, TypeScript, React, Next.js
Database: MySQL, MariaDB, MongoDB
Operating Systems: Ubuntu, Red Hat Enterprise Linux, Windows
Tools: Maven, Git, Docker, Grafana

PROJECTS

Internet Payment Gateway (Hutch – Sri Lanka)

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- Implemented functionality to add bonus amounts on transactions, configurable with both fixed and percentage based slabs.
- Developed an intuitive user interface to allow seamless configuration of bonus thresholds and slab rates. Enhanced transaction validation logic to ensure accurate bonus calculations based on dynamic rules.
- Optimized database queries and introduced indexing strategies, resulting in an 83% reduction in CSV file downloading time.
  Tools: Java 5, Spring MVC, JSP, Hibernate, MySQL, Ant.

Ajuba USSD Subscriber Menu (Rawbank – Democratic Republic of the Congo)

hSenid Mobile Solutions (Pvt) Ltd · rawbank.com/en/banque-a-distance/illicocash/

- Developed a Change Pin Action allowing 500,000+ users to securely update their USSD menu PINs, integrating 3DES encryption to enhance data security compliance.
- Developed the Cash Out Action, streamlining the transfer of funds from a subscriber's wallet to an agent, leading to transaction times over 30% faster.
- Implemented Account Mini Statement feature with pagination support, improving transaction history navigation for 500,000 users with English and French language.
- Designed and deployed a transaction logging mechanism that monitors activities in real-time, providing enhanced oversight for system security and auditing purposes.
  Tools: Java 17, Spring Core, Spring MVC, Spring JDBC, MariaDB, Hibernate, Maven.

Sigtran Gateway (Tata Communication)

hSenid Mobile Solutions (Pvt) Ltd · www.tatacommunications.com/solutions/carrier-services/mobility-solutions/mobile-signalling/

· Developed an API to retrieve Send Authentication Info (SAI) via GSM MAP Protocol call data using HTTP requests and responses.
· Built an UI to configure routing, Calling Party GT and Called Party GT mapping, reducing manual intervention and configuration time by 25%.
· Upgraded the technology stack (JDK 8 to 17, log4j to log4j2), enhancing security and application performance by 15%.
· Configured detailed transaction and summary reports, improving application monitoring capabilities by 35%.
  Tools: Java 17, Spring Core, Spring JDBC, Netty, TypeScript 5, Next.js, Python 3, Maven, Grafana, Keycloak.

Ajuba USSD Subscriber Menu for (M1 – Singapore)

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· Integrated the Ajuba app with the SDP platform, facilitating USSD services for over 2 million subscribers, and established an SMSC connection, enabling SMS functionality.
· Developed the M Send Singapore feature for seamless money transfers between SIM users and improving transaction efficiency by 100%.
· Developed Validity Extension to extend the validity of prepaid sim.
· Upgraded Spring from 4.1.3.RELEASE to 5.3.30 and Hibernate 4.2.8.final to 5.5.6, ensuring improvement in stability and performance.
· Implemented a Password Policy using Keycloak to enhance security compliance, decreasing password vulnerabilities and integrated Grafana for real-time application monitoring, providing 5 actionable insights into performance bottlenecks.
  Tools: Java 17, Spring Core, Spring MVC, Spring JDBC, JSX-WS, MariaDB, Maven, Grafana, Keycloak.

Location Based Service (Dialog – Sri Lanka)

hSenid Mobile Solutions (Pvt) Ltd · ideamart.lk/web/idea-pro/documentation/idea-pro/lbs-api/

· Developed and integrated a location-based service feature for Dialog using 4G technology, improving live location tracking accuracy by 30% on fallback situation.
· Optimized application performance by reducing log verbosity, resulting in a 20% increase in Transactions Per Second (TPS).
· Implemented event logging to monitor request life cycle, improving issue traceability and reducing troubleshooting time by 75%.
  Tools: Java 7, Spring Core, JSX-WS, MySQL, Maven.

EDUCATION

Bachelor of Science in Computer Science and Engineering

Daffodil International University · Dhaka, Bangladesh · 2023 · 3.84

· Participated on coding competitions and hackathons.
· Worked with researchers and published one paper in IEEE.