ADITYA CHAKMA

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🔗 LinkedIn   🐙 Github   🌐 Portfolio

PROFILE

4 years of full stack enterprise Java Software Engineering experience and specialized in developing and managing complex projects, especially in healthcare and EVV (Electronic Visit Validation) systems. Worked in a team of 50+ members and led some core projects, delivering high-quality results. Strong experience in code review, cross-team development, mentoring, requirements gathering, ensuring compliance with accessibility, and efficient project delivery using Scrum practices. I aim to build secure, reliable, scalable, and robust systems.

WORK EXPERIENCE

Therap (BD) Ltd.   **Dhaka, Bangladesh**
Software Engineer II   *March 2021 - Present*

- Developed and maintained a large-scale SaaS application (therapservices.net) with **30,000+ CCU**(Concurrent Users) and **500,000+** individuals.
- Worked in a team of **50+** individuals, worked on cross-team development projects, and reviewed pull requests following maintainable, testable, and clean code practices.
- Optimized most-frequent cron job DB queries and **improved performance by 5x**.
- Optimized **DB QPS (Queries Per second) for a feature by a factor of 25x** by using Oracle Coherence and write-back method.
- Contributed to meeting the 21st Century Cures Act mandated by the Federal Government and delivered state-specific solutions for Kentucky and Tennessee, which helped Therap to secure multi-million dollar state contracts.

Salesforce live chat integration

- Integrated salesforce live chat in Therap System and led two junior developers in the project.
- Automated chat transcription import in Therap System from third party APIs.
- Architected and redesigned salesforce API endpoints, **reducing API calls by 50%**.
- Optimized on-demand loading for Javascripts across the system, **reducing network consumption by 20%**.

KY OS data API and SFTP

- Designed data-integration pipeline by connecting Therap's aggregator application with Therap's suite system.
- Fully automated manual workflows for data integration (SFTP and REST APIs), enabling Therap to secure Kentucky state project.
- Load-tested APIs using Gatling and optimized endpoints, improving performance by **10x** to handle over **500+** requests per second.

Webhook for Therap's ecosystem

- Designed and developed a highly scalable **notification API Server** for Therap's ecosystem as a microservice.
- Used Oracle coherence as a second-level cache for high throughput handling over thousands of high payload notifications per second.

Tech stack: Java, Python3, Hibernate, Spring MVC, Spring Boot, JSP, React, Javascript, REST API, Oracle DBMS, Oracle coherence, Hazelcast, TomCat, Weblogic, Docker.

SKILLS

Backend: Java, Python, C, C++, Javascript
Frontend: React, JSP, Javascript, JQuery, Thymeleaf, PrimeFaces, HTML, CSS
Database: Oracle DBMS, Mysql, PostgreSQL
Dev-Ops: Nginx, Weblogic, Docker, TomCat
Tools/Frameworks: Spring MVC, Spring Boot, Hibernate, Kafka, Maven, Gradle, Git, Gatling, Postman, JUnit
Project Management: Jira, Trello
Competitive Programming: Solved 500+ data structure and algorithmic problems on various online judges
Core competencies: Leadership and cross-team collaboration in an Agile development environment, Problem-solving and optimization, Strong communication skills, Adaptability in a fast-paced environment, Mentoring, and Knowledge sharing.

EDUCATION

Bangladesh University of Engineering and Technology (BUET)   **July 2021 – Present**
Masters in CSE   *Dhaka, Bangladesh*

Bangladesh University of Engineering and Technology (BUET)   **February 2016 – February 2021**
Bachelor in CSE   *Dhaka, Bangladesh*

PROJECTS

- **Online Shop** [Github]
  Designed and developed an e-commerce platform with role-based features, enabling admins to manage inventory and orders while customers could browse products, manage carts, place orders, and view order history. Implemented efficient search functionality for both roles.
  - **Tech stack:** Spring MVC, Hibernate, JDBC, MySql, HTML, CSS, JSP
  - **Features:** Role-based features, including inventory and order management for admins, and product browsing, cart management, order placement, and history tracking for customers

- **Attention (Chrome extension)** [Github]
  Developed a Chrome extension to enhance focus by blocking distracting websites, hiding YouTube Shorts and Facebook Reels, and bookmarking YouTube timestamps. Built using Vanilla JavaScript, Manifest V3, HTML, and CSS, with planned enhancements for customization and LLM-based content summarization.
  - **Tech stack:** Manifest V3, Javascript, HTML, CSS
  - **Features:** Bookmark YouTube video timestamps, remove YouTube shorts, remove Facebook reels, and block websites

- **Travel Mate** [Github]
  Built a web application for managing tour agencies, enabling business owners to list services (hotel bookings, vehicle rentals) and tourists to explore, book, and pay. Implemented real-time tracking of room and vehicle availability using Laravel and MySQL.
  - **Tech stack:** Laravel, PHP, Mysql
  - **Features:** User registration, client registration, product search, product payment, room rent, vehicle rent, room release, vehicle release

- **Remote Control Car using ATMega 32** [Youtube]
  - Components: ATMega 32, Node MCU, L298N Motor driver, SRF-05 Sonar Sensor, IR sensors
  - Tech used: C++, Atmel Studio

LANGUAGES

- Bengali (Native)
- English (**TOEFL - 99/120**)