Mahiuddin Al Kamal

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Career Objective

As a results-driven **Backend Engineer** with expertise in **Java** and **cloud technologies**, I have a proven track record at **SAP**, reducing **supply chain disruptions by 30%** and enhancing **business continuity**. Skilled in **cloud-native architecture**, **cloud platforms**, and **CI/CD processes**, I specialize in developing scalable and efficient software solutions that streamline operations and enhance user experience. Passionate about **innovation and business success**, I am eager to contribute my expertise as a **Senior Software Engineer**.

Technical Skills

Languages	:	Java, TypeScript
Frameworks	:	Spring Boot, SAP UI5, JUnit, Karate
Databases	:	S/4 HANA, MySQL, PostgreSQL, MongoDB, Redis
CI/CD Tools	:	Docker, Kubernetes, Cloud Foundry, Terraform, Azure Pipelines, Jenkins
Other Tools	:	Git, Kafka, Amazon S3, OpenSearch, Unleash, Jira
Cloud Platforms	:	SAP BTP, Microsoft Azure, Google Cloud Platform

Experience

Developer Specialist   Apr 2023 – Present
SAP SE | SAP cDCM   *Walldorf, Germany*

- Developed a **collaborative demand and capacity management** solution for **Catena-X**, reducing supply chain disruptions by **30%.**
- Implemented strategies for early issue resolution, achieving a **20%** reduction in operational costs.
- Increased customer satisfaction by **25%** through proactive supply chain strategies and early issue identification.

Developer Associate   Feb 2022 – Mar 2023
SAP SE | SAP Health   *Walldorf, Germany*

- Enhanced billing accuracy by **40%** through the automated billing engine for SAP's next-gen **Patient Accounting System**.
- Reduced healthcare billing processing time by **30%** with the implementation of FHIR-compliant terminology services.
- Contributed to the design of secure **cloud-native** architecture, ensuring compliance with healthcare regulations.

Master Thesis Student   Oct 2021 – Jan 2022
Deutsche Telekom MMS GmbH | Security Architecture   *Dresden, Germany*

- Designed and implemented a cloud-native **Confidential Inference-as-a-Service** (ConfInfaaS) for **machine learning inference**, ensuring privacy protection and security for sensitive data in a **public cloud** environment.

Working Student   Feb 2021 – Sep 2021
Deutsche Telekom MMS GmbH | Security Architecture   *Dresden, Germany*

- Developed secure cloud infrastructure for a decentralized **Self-Soverign Identity** (SSI) management using **Hyperledger Aries.**
- Integrated **Eperi Encryption Gateway** into a **confidential** app for enhanced data protection by supporting **Intel-SGX and AMD SEV-SNP** technologies for superior **privacy** in public cloud computing.

Research Intern   Oct 2020 – Mar 2021
TU Dresden | Systems Engineering Lab   *Dresden, Germany*

- Researched **ARMs Platform Security Architecture** Attestation and **Microsoft Azure Attestation** for Trusted Execution Environments, such as Intel-SGX **Enclaves**, to explore the potential of **secure cloud computing.**

Assistant Software Engineer   Oct 2017 – Feb 2019
Millennium Information Solution Ltd. | Sylvia   *Dhaka, Bangladesh*

- Developed **recruitment and attendance** modules for **Human Resource Management Solution**, enhancing HR efficiency by **25%.**
- Enhanced **payroll** module, reducing **errors** in **salary** processing by **30%.**
- Optimised **leave management** module, improving employee **leave request processing** time by **40%.**
- Enhanced solution **scalability**, supporting **500+** simultaneous users without performance degradation.

EDUCATION

Technische Universität Dresden   Dresden, Germany
M.Sc. in Distributed Systems Engineering, (GPA: 2,0)   *Oct 2019 – Feb 2022*

Chittagong University of Engineering and Technology   Chittagong, Bangladesh
B.Sc. in Computer Science and Engineering, (GPA: 1,7 - German Scale)   *May 2012 – Mar 2017*

CERTIFICATIONS

- **AI Developer Foundation Program** | Issued By: SAP | Nov 2024
- **SAP Innovator Challenge** | Issued By: SAP | Sep 2023
- **Cloud Native Developer Java** | Issued By: SAP | Dec 2022
- **Software Architecture: Domain-Driven Design** | Issued By: LinkedIn | Apr 2022

PERSONAL PROJECT

KirjaSwappi   *A Book Sharing Platform*   Source Code

- Designed and developed the **backend** infrastructure using **Java, Spring Boot, and MongoDB**.
- Optimized **REST APIs** for enhanced speed and user experience, adhering to **OpenAPI** specifications.
- **Secured APIs** with a robust **JWT based authentication** mechanism.
- Implemented **caching** mechanisms to accelerate object fetching from the S3 bucket by reusing cached image URLs, reducing the need for regeneration.
- Utilized **CI/CD** tools to ensure a seamless transition from development to production.
- **Teck Stack:** Java, Spring Boot, MongoDB, S3, Unleash, Coolify, GitHub Actions, Docker, Git.

LANGUAGE SKILLS

English   : Professional Fluent (C1)
German   : Beginner (A1)

INTERESTS

- Hiking
- Cooking
- Tech Updates
- Exploring Cultures