

AVIJIT PAUL

Software Engineer (Java)

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WORK EXPERIENCE

One Direction Companies Limited [ODCL]

Dhaka, Bangladesh

Full Stack Software Engineer (Java)

November 2024 - Present

- Designed and built Shimana (ODCL Land Management System), a **microservices** platform (**Spring Boot, PostgreSQL, Docker**) powering modules like Authentication and Authorization, Sourcing, Purchase, Asset Management, Audit, and Registration, now supporting 100+ active users across departments.
- Implemented **role-based access control** and automated workflows (reminders, notifications), **reducing manual effort by ~35%** and improving compliance tracking.
- Developed scalable frontend with **React/Next.js and Tailwind**, **delivering 20+ reusable components** and **cutting form development time by 40%**.
- Optimized DevOps pipeline** with config management and schema design, **reducing developer setup time** from days to hours and streamlining deployments.
- Consistently delivered features in 2-week Agile sprints, maintaining 99% on-time delivery rate** while improving scalability and performance.

BJIT

Dhaka, Bangladesh

Trainee (Full Stack Software Engineer – J2EE, React)

2023

- Developed low-latency Java-based **microservice** applications with Spring boot while ensuring seamless progression from requirement analysis to deployment, consistently meeting deadlines..
- Gained experience in **architecture designing, unit testing, debugging, documentation, Docker containerization, and build automation**, laying the foundation for scalable and maintainable software engineering practices..
- Fostered innovation within the development process by actively exploring new technologies and proposing enhancements, contributing to the team's continuous improvement.

Square Health Ltd, Square

Dhaka, Bangladesh

Software Engineer (Intern) - Java

2023

- Developed and implemented a "Billing System for Hospitals" within the designated timeframe, demonstrating strong project management skills. **Successfully delivered a solution that improved billing efficiency** and streamlined patient care processes. Collaborated effectively with other interns, contributing to the design of the project architecture and database.
- Adjusted the application according to client feedback, showcasing a commitment to delivering user-centric solutions.
- Enhanced application quality by developing and **executing best-practice approaches, ensuring high-quality code and a polished** user experience.
- Troubleshooted and resolved software defects and issues, demonstrating strong problem-solving and debugging expertise.

EDUCATION

AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH

Dhaka, Bangladesh

Bachelor of Science in Computer Science and Engineering (CSE)

2018-2022

- Cumulative GPA:** 3.64/4.00 (~83%)
- Award:** Champion at Senior ICT Olympiad, JARVIS, ACC, AIUB
- Thesis work:** Real-Time Threat and Anomaly Detection from Surveillance Video using LRCN and LSTM

Relevant Coursework: Software Engineering, Data Structure, Algorithms, Web Development, Database Management Systems, Object-Oriented Programming (**Java**, C#), Operating Systems. Discreet Mathematics.

TECHNICAL SKILLS

Programming Languages	: Java, Python, C#, C++, C, Javascript
Frameworks	: Spring boot, Next/React, .NET
Web Technologies	: HTML, CSS, JavaScript, REST APIs, JSON, XML
Databases	: MySQL, PostgreSQL, MSSQL, Oracle
DevOps Tools	: Git, Docker, CI/CD Pipeline
Version Control	: GitHub, BitBucket
Software Dev. Methodologies	: Agile (Scrum), TDD (Test-Driven Development), Microservices Architecture
Other Skills	: Data Structure & Algorithms, Object Oriented Programming (OOP), Aspect Oriented Programming (AOP), SOLID, ACID, Design Patterns, Database Designing, JWT, Problem Solving, Implementing Business Logic, Critical Thinking, Presentation

PROJECTS

- **Personalized Health Application (Microservice Project):** Created a **microservices-based application** using Java, **Spring Boot**, JWT, Eureka, Open-Feign, Zipkin, Spring Cloud, MySQL, and PostgreSQL. This project demonstrates experience in developing complex, distributed systems using modern technologies.
Link: <https://github.com/X-AVI-X/Personalized-Health-Management-System-Microservice>
- **Online Book Library:** Developed a **microservice architecture** based book library application using **Spring Boot**, JWT, REST API, JPA, Lombok, and MySQL. Designed a user-friendly database and software architecture with a focus on customer and admin roles.
Link: <https://github.com/X-AVI-X/Online-Book-Library>
- **Billing System for Hospitals:** Designed and developed a billing system using **Spring Boot**, JWT, REST API, JPA, Lombok, and MySQL. Implemented a robust software architecture with role-based authorization.
Link: <https://github.com/X-AVI-X/Billing-System-For-Hospitals-Backend>
- **Bomber-man:** Developed a Bomber man game using **Java and PApplet**, featuring dynamic 2D gameplay with destructible environments, limited life, two types of enemy and **customizable maps**. Implemented strategic bomb placement mechanics, enhancing player interaction and engagement.
Link: <https://github.com/X-AVI-X/Bomberman>

CERTIFICATION

- **Software Product Management** | University of Alberta | Coursera
See credential: <https://www.coursera.org/account/accomplishments/records/GBK7QWRHHPXU>

LEADERSHIP & CO-CURRICULAR ACTIVITIES

AIUB COMPUTER CLUB	Dhaka, Bangladesh
<i>General Member</i>	<i>2018 - 2023</i>

- ✓ Organized events such as CS Fest, Cyber Gaming Fest etc.

AIUB Community of Engineering Students (ACES)	Dhaka, Bangladesh
<i>General Member</i>	<i>2018-2022</i>

- ✓ Actively contributed to community welfare initiatives.

ACHIEVEMENTS & AWARDS

- **Champion** – Senior ICT Olympiad JARVIS, ACC, AIUB - 2023
- **Language:** 7.5 in IELTS Academic Standard
- **Best presentation award at Digital Innovation Fair** at 2012 and 2013 for presenting E-Education Method for Handicapped Students by the use of Technology and How to earn money from home by freelancing consecutively.
- **I-genius** award by Prothom Alo - GrameenPhone Internet Carnival - 2011