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# Pappuraj Bhottacharjee

## Software Engineer L1

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### SUMMARY

I am a passionate and hardworking software engineer with experience in backend development, IoT, and fintech systems. I enjoy solving problems and building systems that are both useful and efficient. I work well under pressure and can learn new technologies quickly without needing much guidance. I always try to improve myself and take on new challenges where I can grow and contribute more to the team and the company.

### WORK EXPERIENCE

#### Software Engineer L1

Project2Morrow Software Ltd

May 2023 — Present

Banani, Dhaka

- Leading and contributing to backend development for fintech and IoT-based systems, with a focus on scalable microservices architecture.
- Worked on major projects including **GoFast BD**, **Bulk Pro Microservice** (Dhaka Bank), **Examon**, and **Finger Bio**, contributing to core features and production deployments.
- Designed and implemented RESTful APIs, integrated Kafka and Redis for real-time data processing, and deployed services using Docker on Linux-based infrastructure.
- **Tech Stack:** Java, Spring Boot, Kafka, Redis, Docker, Git, NGINX, REST API, SOAP, MySQL, Linux

#### Software Engineer (Intern)

Brain Station 23

Nov 2022 — Dec 2022

Mirpur DOHS, Dhaka

- Gained hands-on experience with mobile application development using the Flutter framework; contributed to client-facing app features and collaborated using GitHub.
- **Tech Stack:** Flutter, REST API, Firebase, Git

#### Programmer and Trainer

Roboment R&D Lab

Feb 2019 — Jan 2022

Joydebpur, Gazipur

- Worked part-time as an IoT developer and trainer alongside academic studies; delivered training workshops and developed projects involving electronics and automation.
- **Tech Stack:** Android (Native), Flutter, Arduino, IoT, Raspberry Pi, Electronics

### EDUCATION

B.Sc in CSE, Dhaka University of Engineering & Technology (DUET), Gazipur

March 2019 — June 2023

Diploma in Engineering, Bangladesh Sweden Polytechnic Institute, Kaptai

Aug 2014 — Aug 2018

### SKILL SETS

- **Programming Languages:** Java, SQL, Bash, Dart
- **Backend Frameworks:** Spring Boot, Spring MVC, Spring Security, Hibernate, JDBC
- **Mobile Development:** Android (Native), Flutter
- **Databases:** MySQL, MongoDB, SQLite, Firebase (Realtime DB, Firestore), Hive
- **Messaging & Caching:** Apache Kafka, Redis
- **DevOps & Deployment:** Docker, NGINX, Tomcat, Linux (Ubuntu), Git, GitHub, CI/CD
- **Development Tools:** IntelliJ IDEA, Eclipse, Spring Tool Suite (STS), VS Code, Android Studio, Postman, Jira
- **Concepts & Practices:** REST API, SOAP, Microservices, Clean Code, System Design, Agile, MVC Architecture
- **IoT & Embedded Systems:** NodeMCU, ESP32, Arduino, Raspberry Pi, API Integration, MQTT
- **Publishing Platforms:** Google Play Store , AppBazar 

### PROBLEM SOLVING SKILL (SOLVED 400+)

• Leetcode 

Solved: 340+

Maximum Rating: 1500

• Codeforces 

Solved: 130+

Maximum Rating: 918

• HackerRank 

Solved: 20+

Maximum Rating: 0

• Toph 

Solved: 20+

Maximum Rating: 0

## PROFESSIONAL PROJECTS

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### GoFast BD, Fintech Loan Automation Platform

Jan 2024 – Present

- Role: Team Lead – Contributed 60% of backend implementation.
- Designed scalable services for loan application, verification, and approval using Spring Boot microservices.
- Integrated Kafka, Redis, and Docker for real-time messaging and caching.
- Technology: Java, Spring Boot, Apache Kafka, Redis, MySQL, Docker

### BulkPro, Core Fintech Microservices

Apr 2023 – Dec 2023

- Developed CIF-CASA creation module (40%), Loan Create module (45%), and CASA Close module (25%).
- Microservices contribution 75%.
- Technology: Java, Spring Boot, REST API, Kafka, MySQL, MongoDB

### ExamOn, AI-based Online Examination Platform

Apr 2023 – Dec 2023

- Built core exam module (30%) and contributed to AI integration (35%) for candidate proctoring and behavior detection.
- Technology: Java, Spring Boot, Python, REST API, AI Model API

### IoT Pro, Central IoT Control System for ATM Booths

Apr 2023 – Dec 2023

- Lead Developer – Designed and implemented 80% of the platform to control and monitor ATM booth devices such as lights, AC, and power systems remotely.
- Built REST APIs using Spring Boot and integrated ESP32/NodeMCU microcontrollers for bidirectional communication.
- Used Redis for fast state caching and real-time device status tracking to ensure quick response and reliability.
- Technology: Java, Spring Boot, Redis, Firebase, MQTT, NodeMCU, ESP32

## VOLUNTEER (OR LEADERSHIP) EXPERIENCE

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- **Vice President** DUET Innovation Society
- **Trainer** Seminar on Android App Development
- **Trainer** IoT Workshop at Research Lab Chattogram
- **Trainer** Workshop on IoT at Roboment R&D Lab, Gazipur
- **Application and Project section** DUET Computer Society
- **Additional Robotics Section** DUET Computer Society
- **IT Secretary** Gungchill, DUET
- **Vice President** DUET Innovation Society





## COMPETITIONS

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- National High School Programming Contest 2015
- Skill Competition 2015
- Skill Competition 2016
- MIST Robolution-19
- Bangladesh Smart City Expo 2019
- Digital Device and Innovation Expo 2019
- Hult Prize 2020
- NASA Space App Challenge 2021
- DUET CSE Fest 2021

## PUBLICATIONS

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- Integrated Health-Care for Cripple and Abnormal Person in Home or Hospital 
- Design and Development of an Efficient IoT-based Egg Incubation System 
- Interpretability in Hate Speech and Offensive Language Detection: Leveraging Transformers with Explainable AI 
- Developing an IoT-based Motorcycle Safety and Monitoring System: An Efficient Solution 

## AWARDS & HONORS

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|------|---|
| 2022 | Champion of Project Showcase in DUET Intra Programming Contest 2022 |
| 2019 | 2nd runner-up of Bangladesh Smart City Expo 2019                    |