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# Pappuraj Bhattacharjee

## Software Engineer L1

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<https://pappuraj.com>

### 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

<b>Software Engineer L1</b> Project2Morrow Software Ltd	<b>May 2023 – Present</b> Banani, Dhaka
<ul style="list-style-type: none"><li>Leading and contributing to backend development for fintech and IoT-based systems, with a focus on scalable microservices architecture.</li><li>Worked on major projects including <b>GoFast BD</b>, <b>Bulk Pro Microservice</b> (Dhaka Bank), <b>Examon</b>, and <b>Finger Bio</b>, contributing to core features and production deployments.</li><li>Designed and implemented RESTful APIs, integrated Kafka and Redis for real-time data processing, and deployed services using Docker on Linux-based infrastructure.</li><li><b>Tech Stack:</b> Java, Spring Boot, Kafka, Redis, Docker, Git, NGINX, REST API, SOAP, MySQL, Linux</li></ul>	
<b>Software Engineer (Intern)</b> Brain Station 23	<b>Nov 2022 – Dec 2022</b> Mirpur DOHS, Dhaka
<ul style="list-style-type: none"><li>Gained hands-on experience with mobile application development using the Flutter framework; contributed to client-facing app features and collaborated using GitHub.</li><li><b>Tech Stack:</b> Flutter, REST API, Firebase, Git</li></ul>	
<b>Programmer and Trainer</b> Roboment R&D Lab	<b>Feb 2019 – Jan 2022</b> Joydebpur, Gazipur
<ul style="list-style-type: none"><li>Worked part-time as an IoT developer and trainer alongside academic studies; delivered training workshops and developed projects involving electronics and automation.</li><li><b>Tech Stack:</b> Android (Native), Flutter, Arduino, IoT, Raspberry Pi, Electronics</li></ul>	

### EDUCATION

<b>B.Sc in CSE</b> , Dhaka University of Engineering & Technology (DUET), Gazipur	<b>March 2019 – June 2023</b>
<b>Diploma in Engineering</b> , Bangladesh Sweden Polytechnic Institute, Kaptai	<b>Aug 2014 – Aug 2018</b>

### 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+)

<b>Leetcode</b> ↗ Solved: 340+ Maximum Rating: 1500	<b>Codeforces</b> ↗ Solved: 130+ Maximum Rating: 918	<b>HackerRank</b> ↗ Solved: 20+ Maximum Rating: 0	<b>Toph</b> ↗ Solved: 20+ Maximum Rating: 0
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## 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