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Summary

Staff Software Engineer with 7+ years of experience in system design, mobile application architecture, web engineering, and IoT telemetry pipelines. Proven expertise in leading cross-functional engineering teams, orchestrating multi-project delivery across Flutter, Angular, Java, and React. Accomplished technical leader with a strong background in driving engineering recruitment, conducting organization-wide AI adoption workshops, and delivering scalable enterprise digital platforms.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Dart, Python, Java, HTML5, CSS3/SASS
Frontend & Mobile: Flutter, Angular, React, Next.js, Redux, RxJS, BLoC Pattern, Tailwind CSS
Backend & Microservices: Node.js, Express, NestJS, Java, RESTful APIs, WebSockets, MQTT, HTTP/S
Databases & Cloud: PostgreSQL, MongoDB, MySQL, Firebase, Microsoft Azure, AWS, Microsoft Fabric
IoT Platforms & Tools: ThingsBoard IoT Platform, Git, GitHub Actions, Docker, Jira, Postman, VS Code
Leadership & Domain: System Architecture, Agile/Scrum Management, Technical Recruiting, Mentorship, Client Discovery

Work Experience

SELISE Digital Platforms

Staff Software Engineer
Senior Software Engineer
Software Engineer

Dhaka, Bangladesh
Oct 2025 – Present
Oct 2023 – Sept 2025
Jul 2022 – Sept 2023

- **Multi-Project Technical Leadership:** Direct technical delivery and architecture for 3 concurrent enterprise projects, leading engineering teams across 2 Flutter cross-platform mobile products and 1 web/backend platform built with Angular and Java (BloomGo).
- **AI Strategy & System Design Workshops:** Spearhead company-wide initiatives for AI tooling adoption; organize and conduct technical workshops on mobile app system design, LLM integration, and AI-driven development workflows.
- **Real-Time Analytics Platforms:** Architected a real-time web dashboard using React, integrating dynamic telemetry data streams managed by Microsoft Fabric and .NET backends for enterprise reporting.
- **IoT Telemetry Protocol Management:** Designed real-time monitoring and control dashboards on the ThingsBoard low-code platform, managing HTTP, MQTT, and WebSocket protocols for smart water meters, electric grids, and hydrants.
- **Mobile Engineering Media Delivery:** Architected scalable mobile applications featuring real-time live video streaming, social feature integrations, interactive user feeds, and low-latency push notification engines.
- **Custom Developer Tooling:** Built a drag-and-drop dynamic form builder for the IoT dashboard ecosystem, significantly reducing layout setup time and streamlining onboarding for new client requirements.
- **Frontend AI Interfaces:** Engineered frontend interfaces for AI-driven applications, allowing enterprise users to visualize complex AI outputs, execute prompt-based operations, and interact with structured data models.
- **Recruitment Team Governance:** Lead candidate evaluation and technical interviews for frontend engineering positions; facilitate client-facing technical discussions, conduct architectural code reviews, and mentor junior engineers.

M2SYS Technology

Software Engineer

Dhaka, Bangladesh
July 2020 – June 2022

- **Data Import Pipeline:** Architected and deployed a distributed data import engine for the CloudApper platform, enabling seamless third-party data ingestion into enterprise SaaS applications.
- **Interactive Onboarding Engines:** Engineered user-choice-driven, dynamic product tours within CloudApper, streamlining app customization workflows and boosting user onboarding efficiency.
- **Third-Party Integrations:** Integrated Gmail synchronization and SMS connector plugins into CloudApper's core integration engine, expanding enterprise communication and real-time notification workflows.
- **App Marketplace:** Developed a peer-to-peer SaaS application marketplace enabling business clients to share, monetize, and distribute custom built applications.
- **Agile Execution:** Facilitated code reviews, enforced unit testing standards, and guided junior team members through sprint-based Agile methodologies.

Engineering Resources International

Software Engineer

Dhaka, Bangladesh
Oct 2018 – June 2020

- **Resource Tracking SaaS:** Designed and developed a full-stack SaaS platform for real-time asset and resource tracking across multi-factory industrial environments, accessible via web and mobile interfaces.
- **Real-Time Communication Module:** Engineered custom 1-to-1 and multi-user group chat functionality using WebSockets, providing low-latency messaging across mobile and web client platforms.

Key Projects

AI Travel Assistant: Architected a smart travel solution powered by an LLM agent system allowing conversational queries over domain datasets; features a Flutter cross-platform mobile app, Angular web administration entry portal, Firebase authentication, and RESTful API microservices.

Salon Management Platform: Designed an end-to-end management suite for customer bookings, administrative operations, and technician management, deployed across mobile and web applications.

Dynamic Canvas Builder: Engineered an interactive drag-and-drop web builder allowing real-time rendering, layering, and manipulation of shapes, custom images, and dynamic text blocks.

Passport Verification Pipeline: Developed a high-security passport verification flow featuring automated SMS notifications, built for public-sector use (Bangladesh Police).

Technical Leadership & Initiatives

AI Adoption Frameworks: Created organizational frameworks for adopting generative AI tools across software development lifecycles, improving developer velocity across multiple engineering pods.

Technical Recruitment: Primary technical evaluator for frontend and mobile engineering roles, designing technical assessment rubrics and leading structured interviews.

System Design Mentorship: Regularly hold internal architecture reviews and workshops covering mobile state management (BLoC/Redux), stateful IoT protocols, and modular micro-frontend designs.

Education

American International University-Bangladesh (AIUB)
B.Sc. in Computer Science and Software Engineering (CGPA: 3.60)

Dhaka, Bangladesh
Mar 2015 – April 2018

Honors & Awards

Silver Prize – AIUB CS Fest Programming Contest (2017)

1st Place – National Science Fair (2010)

3rd Place – Bangladesh Math Olympiad (2010)