

# Sourav Ahmed

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## SUMMARY

**Full-Stack Software Engineer • AI/ML Enthusiast • Open Source Contributor** with 3+ years building scalable applications and distributed systems at high-growth startups. Expert in JavaScript/TypeScript, real-time systems, and cloud infrastructure with proven 0-to-1 product launches. Currently integrating frontier LLMs models into AI-assisted workflows for production, optimizing developer velocity by 40%.

## EXPERIENCE

- Software Engineer I • Pathao Ltd.** Dec'24 - Present
- Full-stack engineer delivering scalable platforms across mapping, campaign management, and real-time systems serving 100K+ daily users while contributing to Super AI team's LLM integration efforts.
- **Dashboard Foundation:** Engineered NextJs framework with OpenAPI-driven type generation and Zod validation, powering rapid cross-sector development with shadcn UI, centralized auth/RBAC, and embedded AI guardrails.
  - **Pathao Map:** Architected microservices-based community platform with RBAC serving 100K+ daily users using • GoLang • VueJs • NuxtJs • Docker.
  - **Loop:** Built full-stack campaign management platform handling marketing operations across all services with cloud image pipeline and real-time analytics.
  - **Mission:** Developed gamification platform with event-based listeners rewarding users for action streaks. Built dashboard for mission, entry, phase, goal management • analytics using • NextJs • Go • PostgreSQL • Redis • BigQuery.
  - **Resto Web:** Engineered restaurant SaaS with WebSocket real-time notifications, dynamic menus, analytics dashboard using • NextJs • Zod • TypeScript.
  - **GariKoi:** Developed real-time geo tracking system visualizing driver locations, allocation/deallocation for operations.
- Associate Software Engineer • ShellBeeHaken Ltd.** Aug'23 - Nov'24
- Promoted to full-time after delivering production applications across diverse business domains.
- **Mapage:** Built real-time communication system for reservation/payment platform using • Socket.IO • NextJs • MongoDB with optimistic updates and conflict resolution.
  - **UUORK:** Engineered cross-platform workspace app (ElectronJs + NextJs) with JWT authentication, real-time collaboration, responsive design.
  - **KriyaKarak:** Implemented payment disbursement system with automated payouts • reconciliation dashboard for creative marketplace using • NextJs • MongoDB.
- Software Engineer Intern • ShellBeeHaken Ltd.** Feb'23 - Aug'23
- Shipped features and fixed critical bugs across multiple production codebases with agile processes.

## PROJECTS

- Obstacle Detection**  
Accessibility app using TensorFlow Lite for real-time object detection with audio warnings for visually impaired. • Java • TensorFlow Lite • Computer Vision
- Flash Nvim for VSCode**  
Published extension porting flash.nvim navigation to VS Code with 500+ installs, 5-star rating, intelligent search, multi-cursor. • TypeScript • VSCode API
- Sync Play**  
Collaborative video platform with synchronized playback, chat, local/cloud media support using WebSocket real-time. • NextJs • Socket.IO • Firebase
- FTP Searcher**  
Cross-platform FTP aggregator with search indexing, content discovery for local network sharing. • NextJs • ElectronJs

## EDUCATION

- Shahjalal University of Science and Technology, Sylhet, Bangladesh** Jan'19 - Jan'24
- Institute of Information and Communication Technology (IICT)
- Bachelor of Science in Software Engineering • CGPA: 3.64/4.00 • Ranked 2nd in class (all courses first attempt)

## PUBLICATIONS

- IPA Transcription of Bengali Texts** (arXiv 2024) — Standardized Bengali IPA phonetic transcription with novel dataset and deep learning model advancing NLP for low-resource languages. • Python • TensorFlow • NLP • Pandas

## ACHIEVEMENTS & CO-CURRICULAR

- BdApps National Hackathon 2022 • 1st place in Regional Round 3: Sylhet, out of 100+ teams. • Aug'22
- Mobile App Game & Job Festival 2023 • 1st Runner Up in Idea Competition • Mar'23
- SJ Innovation Hackathon • Innovative Idea Prize in Medical Category • Oct'21
- Creative Executive at SUST ACM Student Chapter • Jul'22 - Jan'23
- Assistant Treasurer at Maavoi Abritti Samsad, SUST • Jan'20 - Jul'20
- Assistant Office Secretary at Manikganj Shamprity, SUST • Jan'22 - Aug'22