

# Koushik Saha

Full Stack Software Engineer

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Authorized to work remotely worldwide | US CPT program eligible

## PROFESSIONAL SUMMARY

Software Engineer with 6+ years of experience architecting React-based platforms serving 1M+ users and leading distributed engineering teams. Technical strategist specializing in micro-frontend architecture, system design, and real-time communication systems. Expert in modern JavaScript and TypeScript with proven ability to scale international engineering teams, make critical architectural decisions, and reduce infrastructure costs by \$180K annually.

### KEY ACHIEVEMENTS

**Business Impact:** Scaled Progressive Web Application to 1M+ active users generating \$2M+ Annual Recurring Revenue with 99.9% uptime at Powerley

**Cost Optimization:** Reduced infrastructure costs by 30% (\$180K annually) through micro-frontend architecture

**Open Source Impact:** Published NPM package [[@codemen/groundfloor-react-ui](https://codemen.github.io/groundfloor-react-ui)] with 500+ weekly downloads, adopted by 12+ companies

**Team Leadership:** Built high-performing engineering culture, scaling team capabilities 3x while maintaining 95% retention rate

## CORE COMPETENCIES

Strategic Problem-Solving | Cross-Functional Team Leadership | Technical Mentoring | Code Review Standards | Engineering Culture Development | Performance Optimization | System Scalability | Agile Methodology | Requirements Analysis | Micro-Frontend Architecture | Real-Time Systems

## TECHNICAL SKILLS

Programming: JavaScript/TypeScript (6 yrs), Python (3 yrs), PHP (2 yrs)

Frontend Development: React (6 yrs), NextJS (4 yrs), Redux Toolkit, Jotai, Tailwind, React Query, HTML5/CSS3, Context API, shadcn

Development Tools: Git, npm/yarn/pnpm, Webpack, ESLint, Prettier, HTTPS protocols,

State Management: Redux (legacy systems), Jotai (modern projects), Context API

Backend: Node.js, Express.js, Django, Laravel, GraphQL, REST APIs

Databases: PostgreSQL, MongoDB, MySQL, Redis, ElasticSearch

Testing: Jest, Cypress, React Testing Library, Performance testing, Playwright

Cloud/DevOps: AWS (EC2, S3, Lambda, CloudFront), Docker, Kubernetes, Jenkins, GitHub Actions, Chrome Extensions

## PROFESSIONAL EXPERIENCE

### Full Stack Software Engineer

[Powerley](#) | Remote | Royal Oak, Michigan | January 2023 – May 2025

- Platform Architecture: Led development using agile methodology for Progressive Web Application serving 1M+ Monthly Active Users, achieving 30% engagement increase and 95 Lighthouse performance score through advanced React 18 optimization and micro-frontend strategy, contributing to \$2M+ Annual Recurring Revenue growth & utilizing system design principles for scalable architecture
- Real-Time Communication Systems: Architected React-based calculation engine processing 10K+ operations/minute with 99.9% accuracy using WebSocket protocols and HTTPS security, implementing concurrent features and optimistic updates for seamless user collaboration.
- Engineering Excellence: Developed enterprise-grade component library reducing User Interface development time by 40% across 3 product teams. Published NPM package achieving 500+ weekly downloads and adoption by 12+ companies
- Technical Strategy: Implemented Continuous Integration/Continuous Deployment pipeline with Docker reducing deployment time from 45min to 8min, enabling daily releases and 25% faster feature delivery to market

- Cross-Functional Leadership: Mentored 8 engineers across 3 time zones, implementing code review standards and architecture patterns that improved team velocity by 35% while maintaining zero critical bugs in production
- Performance Engineering: Established DevOps practices and cross-functional collaboration with distributed product teams.

## Software Engineer

[Codemen Solution Inc](#) | Remote | Dhaka, Bangladesh | May 2021 – December 2022

- Scalable Architecture: Designed micro-frontend platform increasing system performance by 25% and reducing operational costs by 30% (\$90K annually), enabling rapid scaling from 2 to 8 development teams & utilizing system design principles.
- Innovation Leadership: Created React-based SVG modifier library with Photoshop-like capabilities, boosting design team productivity by 40% and securing 3 enterprise client contracts worth \$500K.
- Database Engineering: Optimized MongoDB queries improving response times by 45%, supporting 5x user growth without infrastructure scaling.
- API Development: Built REST/GraphQL Application Programming Interfaces serving 50K+ requests/day with 99.8% uptime, implementing caching strategies that reduced server costs by 25%
- UI/UX Engineering: Designed component libraries with TailwindCSS styling systems, focusing on user experience optimization and responsive design patterns

## Junior Software Engineer

[MoveOn Technologies Ltd](#) | On-site | Dhaka, Bangladesh | July 2019 – May 2021

- Full-Stack Development: Architected e-commerce platform with microservices handling \$2M+ transaction volume, integrating with multiple payment gateways and reducing checkout abandonment by 22%.
- Mobile-First Strategy: Deployed SEO-optimized Progressive Web Application enabling unified codebase for web/mobile, achieving 90+ Lighthouse scores and increasing mobile conversion rates by 35%.
- Backend Optimization: Developed Laravel Application Programming Interfaces reducing response times by 20% and improving system throughput by 30%, supporting Black Friday traffic spikes without downtime.
- Customer Integrations: E-commerce platform with multiple payment gateway integrations, reducing checkout abandonment by 22%

## EDUCATION

Master of Science in Engineering Management

Westcliff University, Irvine, CA | Expected May 2026 | GPA: 3.75/4.0

BSc in Computer Science & Engineering

North South University, Bangladesh | May 2019

Relevant Coursework: Data Structures, Algorithms, Software Engineering

## CERTIFICATIONS

AWS Certified Solutions Architect – Associate

2025

Professional Cloud Architect (Google Cloud)

2024

React JS Certificate Training – Coursera

2019

## STRATEGIC PROJECTS

Enterprise Learning Platform

Mar 2017 – Nov 2017

- Architected EdTech microservices platform demonstrating scalability patterns later applied at Powerley
- Achieved 40ms response time serving 1000+ concurrent users on AWS, validating architecture for production scale

AI-Powered E-Commerce Engine

Jan 2018 – May 2020

- Built recommendation system increasing conversion rates by 25% and user engagement by 40%
- Implemented ML algorithms for personalization, processing 100K+ user interactions daily

## LEADERSHIP & IMPACT

- Technical Leadership: Led 5-person engineering team, establishing architecture standards adopted company-wide
- Mentorship Excellence: Guided 8 junior developers with 100% promotion rate to mid-level within 18 months